



**Ingredion.**  
Be what's next.

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**MAKING  
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BETTER**

S U S T A I N A B I L I T Y   R E P O R T

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# THE WORLD AROUND US CONTINUES TO CHANGE AND EVOLVE

which is impacting the area of sustainability. The COVID-19 pandemic has only accelerated that pace of change. The innovative spirit that has helped make Ingredion a leader in global ingredient solutions has also helped us rise to the growing challenges of sustainability. However, the challenges that the world faces are bigger than any one organization. Now more than ever, we look to engage with stakeholders outside of our company – customers, suppliers, farmers and non-governmental organizations – to leverage our collective expertise to drive progress farther and faster than we could on our own. Last year, Ingredion initiated several sustainability-related engagements, which we are excited to update you on.

This past year also saw continued interest in environmental, social and governance (ESG) aspects of our business. We believe that ESG performance is a strong indicator of the long-term performance and resiliency of a company. There has been a lot of interest in our climate strategy, and I am pleased to share that we have applied to the Science Based Target initiative to have our carbon emission reduction target validated. This is an integral step as part of our longer journey toward continuously reducing the impact of our carbon emissions on climate.

In 2021, we also made noted progress against our commitment to sustainably source our Tier 1 priority crops, which represent approximately 99 percent of our global sourcing by volume. We know that there are, and will be, challenges ahead in reaching our targets, but these are challenges we are committed to overcome. Implementing sustainable agriculture practices with our grower suppliers not only creates a more climate resilient supply chain but offers us an opportunity to reduce the Scope 3 carbon emissions associated with those farming operations. Sustainable and regenerative agriculture initiatives have also provided a forum for us to collaborate with customers and other stakeholders in new and innovative ways, as you will read about in this report.

I am pleased with the growth and future prospects we continue to see in our strategic growth platforms. In the area of plant-based proteins, the positive impact on sustainability from these ingredients has been well documented. We ramped-up our pulse-based protein operations in North America by commissioning our pea

protein isolate facility in South Sioux City, Nebraska and expanding our Vanscoy, Canada pulse flours and concentrates facility to produce high-value, specialty pulse concentrates. In the area of sugar reduction, our PureCircle business remains a leader in natural, high-intensity sweeteners by offering three unique stevia families derived from leaf extract, bioconversion and fermentation. Consumer and customer interest in more natural and sustainable solutions for sugar reduction continues to rise, with interest in health, nutrition and wellness. Our innovation strategies supporting our growth platforms are intrinsically linked to our sustainability strategy, and we are actively pursuing opportunities to evaluate and improve the sustainability performance of our ingredients through our innovation product design capabilities going forward.

This report also serves as our United Nations Global Compact communication on progress and highlights where we are on our journey. I am very proud of our sustainability progress, and I am equally proud of the purpose-driven commitment of our 12,000 global Ingredion employees who have shown their dedication and teamwork in support of our 2030 All Life Sustainability Plan. Thank you for your interest in this important work, which continues to shape our strategic agenda, and I look forward to sharing further accomplishments in the years to come.

  
**James P. Zallie**  
**(he/him)**  
**President**  
**and CEO**





EVERYDAY  
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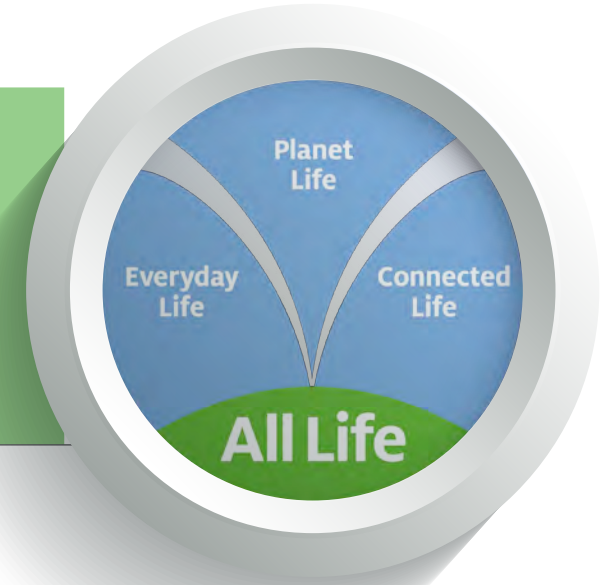
PLANET  
LIFE

CONNECTED  
LIFE

Sustainability Goals  
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# 2021



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Ingredion



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# SUSTAINABILITY GOALS PROGRESS SUMMARY

## 01 EVERYDAY LIFE

- ON TRACK
- SLOWER PROGRESS
- NOT YET STARTED



ELEMENT	MILESTONES	STATUS	UNGC ALIGNMENT	UN SDG ALIGNMENT
<b>People &amp; Product Safety</b>	• Achieve an employee and contractor TRIR of 0.18 by the end of 2025	<span style="color: yellow;">●</span>		3
	• Establish programs to enhance health and well-being in each major area of operation by the end of 2025	<span style="color: green;">●</span>		3
	• Further enhance our processes to achieve zero significant food safety-related incidents reaching consumers by the end of 2025	<span style="color: green;">●</span>		3
	• Increase the average hours of training per employee by 50% by the end of 2027	<span style="color: green;">●</span>		3
	• Achieve an employee and contractor TRIR of 0.15 by the end of 2030	<span style="color: green;">●</span>		3
<b>Human Rights</b>	• Implement the ISO 26000 social responsibility guidance by the end of 2023	<span style="color: green;">●</span>	1, 2, 3, 4, 5, 6, 10	8
	• Assess the human rights protection practices across 100% of our agricultural supply chain for Tier 1 priority crops by the end of 2024	<span style="color: green;">●</span>	1, 2, 3, 4, 5, 6, 10	8
	• Audit 100% of suppliers meeting high-risk criteria for human rights by the end of 2027	<span style="color: green;">●</span>	1, 2, 3, 4, 5, 6, 10	8
	• Validate human rights protection across Ingredion's operations and supply chain by the end of 2030	<span style="color: green;">●</span>	1, 2, 3, 4, 5, 6, 10	8



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# SUSTAINABILITY GOALS PROGRESS SUMMARY

## 01 EVERYDAY LIFE

- ON TRACK
- SLOWER PROGRESS
- NOT YET STARTED



ELEMENT	MILESTONES	STATUS	UNGC ALIGNMENT	UN SDG ALIGNMENT
<b>DEI &amp; Belonging</b>	• Achieve 100% on the Human Rights Campaign Foundation’s Corporate Equality Index as an employer of choice for LGBTQ+ employees by the end of 2022	●	6	5
	• Reach industry benchmarks on inclusion and belonging indicators on our employee engagement survey by the end of 2022	●	6	5
	• Minimize bias and maximize equity in our hiring and promotional practices by the end of 2022	●	6	5
	• Improve the representation of women in management with a goal of gender balance by the end of 2030	●	6	5
<b>Innovation</b>	• Develop and deploy a mechanism to allow for efficient product screening against our assessment criteria by the end of 2021	●	9	
	• Engage in three circular economy projects within our supply chain by the end of 2025	●	9	12
	• Have 40% of all new products aligned with the UN SDGs by the end of 2025	●	9	
	• Have 75% of all new products aligned with the UN SDGs by the end of 2027	●	9	





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SUSTAINABILITY GOALS PROGRESS SUMMARY

02 PLANET LIFE

- ON TRACK
- SLOWER PROGRESS
- NOT YET STARTED



ELEMENT	MILESTONES	STATUS	UNGC ALIGNMENT	UN SDG ALIGNMENT
<b>Environmental Impact</b>	• Achieve plastic neutrality across our operations by the end of 2025	●	7, 8	12
	• Achieve a 25% reduction in absolute GHG emissions by the end of 2030	●	7, 8, 9	13
	• Source 50% of our purchased electricity from renewable sources by the end of 2030	●	7, 8, 9	7, 13
	• Reduce our water use intensity by 30% in all extremely high-stress geographies where we manufacture products by the end of 2030	●	7, 8, 9	6
	• Achieve 100% avoidance of waste to landfill by the end of 2030	●	7, 8	12
	• Reduce COD or BOD by 10% from our wastewater discharges by the end of 2030	●	7, 8	6
<b>Biodiversity Protection</b>	• Engage with an NGO partner to identify any endangered species impacted by agricultural operations from which we source raw materials by the end of 2022	●	7, 8, 9	15
	• Assess agricultural biodiversity risks for priority crops and sourcing regions by the end of 2023	●	7, 8, 9	15
	• Identify local partners and engage in projects to have a net positive impact on any endangered species impacted by our supply chain by the end of 2025	●	7, 8, 9	15
	• Implement biodiversity conservation programs in all crop sourcing areas located in biodiversity hotspots by the end of 2025	●	7, 8, 9	15
	• Achieve zero deforestation, or 100% sustainable use of forest-based resources, by the end of 2030	●	7, 8, 9	15



EVERYDAY LIFE

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# 03 CONNECTED LIFE

- ON TRACK
- SLOWER PROGRESS
- NOT YET STARTED



# SUSTAINABILITY GOALS PROGRESS SUMMARY

ELEMENT	MILESTONES	STATUS	UNGC ALIGNMENT	UN SDG ALIGNMENT
<b>Sustainable &amp; Regenerative Agriculture</b>	• 100% of global waxy corn supply sustainably sourced by the end of 2022	<span style="color: green;">●</span>	9	15
	• 100% of Tier 1 priority crops sustainably sourced by the end of 2025	<span style="color: green;">●</span>	9	15
	• Implement water conservation projects with growers in 100% of extremely high water stressed sourcing geographies by the end of 2025	<span style="color: green;">●</span>	9	15
	• Confirm that 100% of our agricultural supply is not using pesticides of concern (as defined by the World Health Organization) by the end of 2025	<span style="color: green;">●</span>	9	15
	• Educate growers and/or implement integrated pest management in at least 70% of our agricultural supply chain by the end of 2027	<span style="color: green;">●</span>	9	15
	• 100% of our Tier 1 and 2 priority crops sustainably sourced by the end of 2030	<span style="color: green;">●</span>	9	15
<b>Food Security</b>	• Implement five product or supply chain initiatives in support of plant-based or alternative proteins by the end of 2025	<span style="color: green;">●</span>		2
	• Catalyze food waste awareness and reduction by implementing at least five projects with customers and/or suppliers to minimize food waste in our supply chain by the end of 2025	<span style="color: green;">●</span>		12
	• Implement agricultural efficiency initiatives in support of smallholder farmers in 100% of applicable geographies in our supply chain by the end of 2027	<span style="color: green;">●</span>		2



EVERYDAY LIFE

PLANET LIFE

CONNECTED LIFE



# 03 CONNECTED LIFE

- ON TRACK
- SLOWER PROGRESS
- NOT YET STARTED



ELEMENT

## Community Impact

MILESTONES

- Enact programs in 100% of the communities where we produce products to help eradicate childhood hunger by the end of 2025
- Enact programs to support education and/or educational gender equality in 100% of our operational areas with low graduation rates by the end of 2025
- Enact programs in support of local water conservation in 100% of extremely high water stress communities where we produce products by the end of 2027
- Enact initiatives to support women entrepreneurs in 100% of the communities in which we operate that have a high gender equality imbalance

STATUS

- 
- 
- 
- 

UNGC ALIGNMENT

UN SDG ALIGNMENT

- 2
- 4, 5
- 6
- 5

# SUSTAINABILITY GOALS PROGRESS SUMMARY







EVERYDAY LIFE

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# MATERIALITY MATRIX

RELEVANCE TO INGREDIENT

VERY HIGH	<ul style="list-style-type: none"> <li>Continuous Improvement</li> </ul>	<ul style="list-style-type: none"> <li>People &amp; Product Safety</li> <li>Diversity, Equity &amp; Inclusion</li> <li>Business Integrity</li> <li>Renewable Energy</li> </ul>	<ul style="list-style-type: none"> <li>Climate Change</li> <li>Water Stewardship</li> <li>Sustainable &amp; Regenerative Agriculture</li> <li>Innovation</li> </ul>
HIGH		<ul style="list-style-type: none"> <li>Human Rights – Ingredient Operations</li> <li>Employee Training</li> <li>Sustainability Reporting</li> </ul>	<ul style="list-style-type: none"> <li>Human Rights – Suppliers</li> <li>Community Impact</li> <li>Food Security</li> </ul>
MODERATE	<ul style="list-style-type: none"> <li>Indigenous Populations</li> </ul>	<ul style="list-style-type: none"> <li>Biodiversity Protection</li> </ul>	
	MODERATE	HIGH	VERY HIGH

RELEVANCE TO STAKEHOLDERS

**Ingredion Sustainability Materiality Matrix**  
 Our sustainability materiality matrix represents our global operations and a prioritization of sustainability-related topics based on internal and external assessment. While we continue to incorporate our stakeholders' sustainability drivers into our efforts, we are increasingly looking at external standards to enhance how we measure and communicate about our program. We continue to look at the Sustainability Accounting Standards Board (SASB) Materiality Map, as well as programs like the Task Force on Climate-related Financial Disclosures (TCFD).

The inclusion of information in this report should not be construed as a characterization or an admission regarding the materiality or financial impact of that information for purposes of U.S. securities law. For additional information regarding Ingredion, please see our current and periodic reports with the Securities and Exchange Commission, including our Annual Reports on Form 10-K and Quarterly Reports on Form 10-Q.

- Everyday Life
- Planet Life
- Connected Life
- Governance



Ingredion<sup>®</sup>

Be what's next.

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People & Product Safety  
Human Rights  
DEI & Belonging  
Innovation

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E V E R Y D A Y L I F E



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# PEOPLE & PRODUCT SAFETY



## KEEPING OUR FOCUS ON SAFETY

We still believe that we are creating a best-in-class environment when it comes to safety, but we know that we can always do better. Enhanced safety campaigns are already planned for 2022 to maintain our focus on an injury-free workplace.

We continued to deliver world-class performance, with zero reported injuries in 79% of our locations and zero reported lost-time cases in 89% of locations. Year-over-year, we reduced process thermal events by 50%, minimizing personal safety risk and improving business continuity.

While COVID-19 caused higher absenteeism rates due to virus-related personal or family illness, our teams improved safety results with continuous improvement methodologies.

Though challenged by the global pandemic, we sustained historical Employee TRIR levels while reducing Contractor TRIR by 14%. Also, by quickly adopting our Care First value, newly acquired sites saw strong performance, with our largest construction site in China concluding the year with zero injuries. The coming year will present ongoing challenges as we respond to ongoing COVID impact on employees and their families while continuing to drive world-class performance at each site.

Factors like absenteeism related to COVID created some challenges to maintaining a safe work environment. Whether employees were ill or off to care for loved ones, we ensured staff was in place that permitted safe operation of our processes. Higher absenteeism can sometimes result in less job familiarity, potentially more fatigue and other challenges in our efforts to maintain a safe work environment.



**Marcus Payne**  
Vice President, Global Environmental,  
Health, Safety and Security

# 2021

## Safety Performance

2017 2018 2019 2020 2021

### EMPLOYEE TRIR

0.28 0.26 0.27 0.28 0.31

### CONTRACTOR TRIR

0.13 0.23 0.26 0.22 0.19







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# PEOPLE & PRODUCT SAFETY

Our dedication to the safety of people is well aligned with our commitment to producing products that are safe for people and the environment. As the majority of our products are for use in the food and beverage sector, we adhere to strict regulatory requirements for food ingredients as well as the highest global standards in food safety. This gives our customers and our employees the confidence they need when buying consumer products containing our ingredients. Everyday we are aware of the importance of keeping safety top of mind in everything we do.



## PROMOTING PRODUCT SAFETY

We know that making high-quality, safe products is imperative to being the company we want to represent, and to the value proposition we bring to our customers.

Maintaining our focus on quality and food safety continues to be of the utmost importance. But with all the complexity facing companies this year, we made sure that food safety remained front-of-mind for our employees.



*Pam Malcontento*  
Senior Director of Quality,  
North America

Recognizing we had three product recalls in 2021, we used learnings from these incidents to further bolster our quality processes. We make ingredients out of corn, tapioca and other nature-based raw materials, with the majority going to the food and beverage industry. Therefore, making food-grade products that align with the needs of those customers remains a priority. Ingredient continues to use the highest, globally recognized program for food safety, the Global Food Safety Initiative (GFSI). We are pleased to report:



of our food product manufacturing sites certified to this standard.





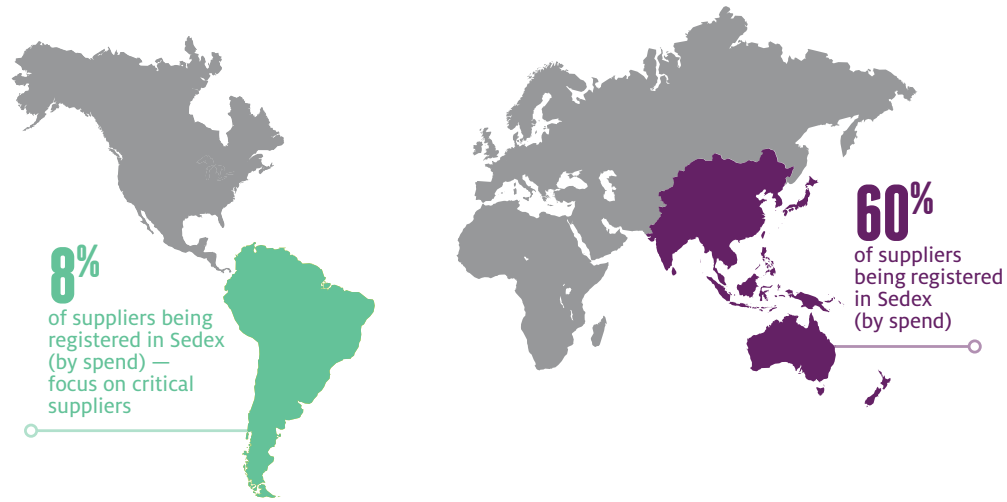
# HUMAN RIGHTS

## DRIVING FOR GREATER TRANSPARENCY

At Ingredion, we believe that improving transparency throughout our supply chain is the first step in driving continuous improvement. To help drive that transparency, we are engaging our suppliers around the globe to register in the Supplier Ethical Data Exchange (Sedex) to enable both organizations to share information on how we operate. We aspire to register all suppliers in Sedex, and then use high-risk criteria to determine which suppliers should have a third-party Sedex Member Ethical Trade Audit (SMETA). These audits will provide us information to allow us to collaborate with customers and suppliers to make certain possible risks are known and collective actions are implemented to make certain we are respecting human rights across our value chain. This work aligns with the Human Rights policy in the Ingredion Code of Conduct.

## REGISTERING SUPPLIERS IN SEDEX

This year, our regional procurement teams worked with their local suppliers to get them registered in Sedex, the Supplier Ethical Data Exchange. In general, those local procurement teams started by identifying their top suppliers by spend, but also considered where other higher risks considerations could exist, such as single-source suppliers.



We believe that getting our suppliers registered in Sedex is the first step in a bigger process of continual improvement. Once a high percentage of our suppliers are in the Sedex database, we will then be able to use their Supplier Risk Assessment Tool, more commonly known as “Radar”. Radar will enable us to screen suppliers, identify potential risks, and then engage suppliers in developing action plans to drive continual improvement where needed. Tools like Radar will allow us to evaluate our supply chain across a common framework, and enable us to more efficiently deploy our resources in collaborating with suppliers.

## SUPPLIER ENGAGEMENT IN MEXICO

In 2021, our Ingredion Mexico team started a longer-term process of working with suppliers to promote a more sustainable supply chain. 22 suppliers were enrolled in their first effort, which started with registering suppliers in Sedex and engaging them individually to develop continuous improvement plans. Additionally, an external training platform was setup to facilitate additional knowledge sharing and supplier education. This platform was built around a range of environmental, social and governance (ESG) topics. We intend to continue this process with new group of suppliers every few years.







# HUMAN RIGHTS

## ENHANCEMENTS IN OUR PURECIRCLE® SUPPLY CHAIN

Our PureCircle operations continue to work with local suppliers in China to drive enhancements in quality and governance relative to their operations. This means maintaining a close dialogue with those suppliers, continuing to enhance our auditing strategy, and maintaining transparency and traceability to the farms supplying our leaf. This also means working with both large and small agricultural suppliers and understanding how we can best support them through agricultural or other technical support.

The PureCircle team is already considering how we can engage outside experts to further evaluate human rights considerations in our supply chain in 2022.



We have had significant dialogue with our customers, suppliers and other stakeholders to understand challenges or concerns and take action accordingly. At the end of the day, the additional effort we are putting into our suppliers will provide value to everyone along our supply chain.

**Kurt Callaghan**  
Global Strategic Director,  
Sugar Reduction and PureCircle  
Office of the CEO



## COLLABORATING ON HUMAN RIGHTS

To progress human rights across our value chain, we understand the need to engage with organizations. To this end, we were proud to join the G7 Supply Chain group in committing to act in support of a more sustainable and resilient food and agriculture sector. This commitment, signed by our Chief Executive Officer, unites a group of leading food and agricultural companies from G7 countries, which are willing to further sustainability while reducing the climate impacts of their operations and supply chain.

*Conducted in collaboration with the World Benchmarking Alliance, the group's goal is to accelerate progress toward the UN Sustainable Development Goals.*



## IMPLEMENTING ISO 26000

In our pursuit to establish best-in-class practices around human rights, we believe that it's important to continually assess ourselves against relevant programs. For this reason, we have chosen to adopt the ISO 26000 guidance and use its criteria to help drive continual improvement. While ISO 26000 does not have an associated certification, we believe it provides an excellent roadmap on how companies can implement socially responsible practices.

**92%** Estimated progress against ISO 26000

We undertook many initiatives in 2021 to advance human rights, including adding an individual to the corporate sustainability team to focus on this topic, as well as enhancing our collaboration with internal and external stakeholders. These advancements have led to the development of a new roadmap to help drive our human rights program.



With Ingredion's strong roots in safety, inclusivity and innovation, we will continue to evolve a strategic human rights program that takes into consideration our global operations, supply chain and ultimately the people who form the foundation of our business.

**Katie Smothers**  
Senior Manager, Sustainability





# DEI & BELONGING

## INGREDION'S DEI REPORT

In 2021, Ingredion proudly published our first DEI Report. And while we received very positive feedback from our stakeholders, we challenge ourselves to continue to grow and enhance how we communicate on our Diversity, Equity and Inclusion efforts. Primary among those stakeholders are our employees, who remain the critical ingredient that helps us *Be What's Next* in producing innovative products for our customers. While we have included a high-level summary of our DEI efforts in this report, we encourage everyone to read our full DEI Report as well.

"DEI is a crucial part of Ingredion's sustainability standards," *indicates Sam Renovato, Director, Global Diversity, Equity and Inclusion.* "Not only is it an element of our program with measurable goals, but it also serves as one of the key levers used to meet all our sustainability goals. We rely heavily on the creativity and innovation of all our employees and their unique points of view to execute on our *All Life* plan."

We believe DEI is critical to our success. By embracing our diverse experiences and the knowledge and insights of our employees, we can achieve our goals and meet the challenges ahead.



*Sherri Dublin*  
Vice President of DEI,  
Culture, Engagement  
and Communications

## PROGRESS AGAINST OUR COMMITMENTS

We are pleased with the progress we have made against our DEI & Belonging milestones but know that we still have a long way to go. We look forward to building on our success from 2021 to drive toward our eventual goal of having a work environment where everyone feels they truly belong.



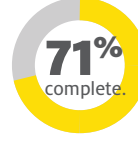
Achieve 100 on Human Rights Campaign Foundation's Corporate Equality Index



Reach industry benchmarks on inclusion and belonging indicators



Minimize bias in our hiring practices



Gender balance in management

In 2021, we were also pleased to again be named to Bloomberg's Gender-Equality Index, having improved our score from 41.3% in 2020 to 66.7% in 2021. We continue to use Bloomberg's index as a benchmark to measure our performance and evaluate opportunities for improvement.



## EXPANDING INCLUSIVENESS THROUGH OUR BRGS

Our Business Resource Groups (BRGs) play an important role in the interface of our employees and our sustainability agenda, as well as being central to our efforts to create a work environment where everyone belongs. We have continued to grow these BRGs, both by expanding the number of existing groups, as well as adding new groups to reach more employees. We have also expanded our senior management sponsorship of the BRGs to better enable them in taking action and driving positive impact.



**EMPOWERED**  
Empower Employees with Diversabilities

In 2021, we launched a new BRG called EMPOWERED. Our South American team has over thirty employees with disabilities, and these employees were the main drivers in forming this BRG. We hope that our employees with disabilities, as well as those who want to help champion their efforts, will trigger the expansion of other EMPOWERED BRGs in the years to come.



Existe más de un camino para llegar a la meta, elige el mejor.



# INNOVATION

## DESIGNING PRODUCTS FOR THE FUTURE

This year, our Innovation team worked to update the sustainability scorecard used as part of our new product development process. With our new commitment to link new product development to the UN Sustainable Development Goals, we knew we needed to update the scorecard to accommodate our All Life strategy commitments.

“We have built a scorecard that assesses product sustainability across multiple attributes. As we did not find a lot of external benchmarks, we created our own, guided by the UN SDGs and other factors.” *says Kelly Carver, Senior Engineering Associate in Ingredion’s Innovation team.*

Traditionally, most companies have relied on life cycle assessments (LCAs) to appraise the sustainability performance of their products. But when we looked at trends from customer requests, as well as consumer buying preferences, we found that the interest in sustainability went beyond the environmental elements covered by an LCA.

\*source: Euromonitor, 2022

In addition to a rising focus around climate change, customers are also asking about topics such as sustainable agriculture and ethical sourcing. We needed a tool to help us better match product innovation with the sustainability aspirations of our customers.

*Luc Bertram*  
Vice President, Global Key Accounts & Sales Excellence



## ENHANCED FOCUS ON HEALTH AND NUTRITION

In response to strong global market trends heightened even more by the pandemic, we formed a new growth platform focused on the Nutrition, Health, and Wellness space.

**THE HEALTH AND WELLNESS PACKAGED FOOD AND BEVERAGE RETAIL MARKET IS VALUED AT \$851BN\* AND IS GROWING AT A CAGR OF 8.2%.**

Ingredion is not new to the Nutrition Health and Wellness market, with a sizeable business already. However, the creation of this new platform signals our commitment in this space and the importance of this market.



## COLLABORATION FOR INNOVATION

To us innovation goes beyond our products and the work we do in our development labs, it’s about staying connected to developing trends in the food and beverage space. We do this, in part, through partnership with organizations like MISTA and The Hatchery Chicago.

MISTA is a multi-dimensional innovation platform that helps unlock member potential, and The Hatchery Chicago is a non-profit food and beverage incubator dedicated to helping local entrepreneurs build and grow successful businesses. In addition to our active participation as members, we look for opportunities to promote sustainability through these organizations. In 2021, we were proud to join The Hatchery’s Earth Day panel to broaden the sustainability dialogue with food entrepreneurs.







# INNOVATION

A stronger focus in three specific areas moving forward—Digestive Health, Metabolic Health and Immune Health—will enable us to continue to expand the range of innovation products and solutions we offer to customers and deepen our expertise in fields which we know are important, all without compromising taste or texture.

A recent example of a new innovation in the **plant-based protein** space, was the launch of a new range of PRISTA ultra-performance pulse ingredients which included a pea flour, pea protein concentrate and faba bean protein concentrate. They are an exciting new line of functional pulse ingredients which have been manufactured using Ingredion proprietary deflavoring technology which offer great taste, nutrition and functionality to enable manufacturers to deliver on increasing consumer demand for plant protein-rich foods. Labeled simply as “pea flour,” “pea protein” or “faba bean protein,” the ingredients offer non-GMO assurance and are not produced from regulated allergens (e.g., gluten and soy), making ultra-performance Prista pulses a great option for plant-based, clean label, reduced-fat, better-for-you formulations.



One of the top ways to make processed foods and beverages healthier is through **sugar reduction**.

Sugar content is what consumers now look for most often on front-of-pack marketing.

*Nate Yates  
Global Platform Leader  
for Sugar Reduction &  
Specialty Sweeteners*



This has created tremendous interest and opportunity for beverage companies to formulate with ingredients like stevia, erythritol and allulose. We partner with our customers to offer zero-calorie ingredients which create taste experiences consistent with their full sugar counterparts. This is part of the broader sizable opportunity for natural sweeteners within the better-for-you beverage category. Sweeteners such as stevia and allulose have expanded the sugar reduction toolkit for beverage formulators. Allulose is a versatile ingredient in sugar reduction solutions, offering

both sugar-like sweetness and functional build back, replicating the browning and mouthfeel of sugar. PureCircle by Ingredion has the broadest portfolio of stevia solutions for beverage companies, and recent innovations include expanding the range of flavorings with modifying properties (FMPs). These ingredients label as natural flavors but provide a range of taste enhancements from improving sweetness quality, making offnotes which can come from ingredients such as proteins, and amplifying flavor notes like vanilla and cocoa. Also from PureCircle, Reb M—from stevia leaf extract, bioconversion and fermentation technologies—provides a tasty, cost effective and more sustainable ingredient solution for beverage customers.





# INNOVATION

## DRIVING FOR A MORE CIRCULAR ECONOMY

We have committed to working with customers and suppliers across our value chain to promote more circular economy practices. For example, we purchase potato co-streams from customers that use those potatoes to make chips and fries, then process them into potato starches that enhance the functionality of their products. Selling these enhanced products back to customers is just one example of how we put circular economy practices into play.

To further our understanding of circular economics and have a common framework for customer engagement, we completed The Ellen MacArthur Foundation’s Circulytics assessment for the first time this past year. Overall, we rated a C in our assessment, with a B- in our Enablers score.



“The Circulytics assessment provides the framework to consider how we can improve our efforts and a standardized approach for connecting with customers,” **said Brian Nash, Vice President of Corporate Sustainability.**

## PROMOTING ANIMAL WELFARE

In our Animal Welfare Policy, adopted in 2020, we stated our position to avoid animal testing where it is not required by law. That policy also indicated that Ingredion would form an Animal Welfare Council to continually evaluate our practices. In 2021, our Animal Welfare Council met to review requests for animal testing as well as any regulatory requirements in the related countries. This Animal Welfare Council is made up of representatives from our Legal, Regulatory and Sustainability groups.

The Animal Welfare Council is an integral forum for evaluating test requests, discussing applicable regulations and scope for alternatives to animal testing. It ensures we are making informed decisions in alignment with our animal testing policy.

**Debbie Levine**  
Director of Regulatory Affairs



Ingredion manufactures ingredients derived from plant sources and we do not use animals in our production processes. From time-to-time testing is required for our products or related claims. Our animal testing policy commits us to eliminating animal testing except where it is required by law or no other viable testing alternatives exist. Our Animal Welfare Council will continue to help clarify and inform how we implement our policy.







**Ingredion**

Be what's next.

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Environmental Impact  
Biodiversity Protection

P L A N E T   L I F E

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# ENVIRONMENTAL IMPACT

## WORKING TOWARD A BETTER PLANET

Ingredion is committed to reducing the environmental impact associated with our operations. For climate change, this means setting targets based on science and industry-specific standards. Our carbon reduction targets were developed using the Science Based Target initiative (SBTi) methodology, and are designed to align us with a well-below two degrees Celsius pathway. We have filed our commitment with SBTi to certify our climate change target and expect to get our target validated in 2022. This, however, is not keeping us from setting our plans and moving forward in driving carbon reductions.

Additionally, we recognize that Net Zero commitments by 2050 are required to mitigate climate change. We have not yet established a pathway to net zero, but we are working to develop a strategy and roadmap during 2022.



In reducing our impact on local watersheds, Ingredion is using context-based water targets for our operations. We use an ensemble of recognized water stress tools (e.g., Aqueduct, WWF Water Risk Filter) and aggregate the results to establish the geographic water stress of the areas in which we operate. From there, we established scaled reduction targets, starting from 30% water use intensity reductions in extremely high stress areas.

## PROGRESS TOWARD OUR GOALS

We have made good progress against our 2030 carbon reduction goals, delivering on reductions in Scope 1 emissions from our manufacturing operations. Overall, 2021 saw us make an additional 11% carbon emission reduction versus a 2019 baseline, highlighted by a permanent transition from coal to natural gas at our largest global facility.

We continue to work on refining our estimates of Scope 3 emissions, but still consider farm-level emissions of our agricultural suppliers to represent a significant opportunity for reductions. To that end, we piloted some on-farm projects and scoped out additional projects with customers. To read more about our agricultural-related efforts, please see the Sustainable and Regenerative Agriculture section of this report.



# 2021

## Milestone Performance

<b>Carbon Emissions</b> (Scopes 1, 2, and biogenic)	<b>-12%</b>
<b>Renewable Energy</b>	<b>4%</b>
<b>Water Use Intensity</b> (in extremely high-stress geographies)	<b>-2%</b>
<b>Waste to Landfill Avoidance</b>	<b>75%</b>
<b>Wastewater COD Intensity</b>	<b>+2%</b>

Results based against a 2019 baseline.



# 2021

## Environmental Metrics

<b>Scope 1 Emissions</b> [metric tons]	<b>2,267,800</b>
<b>Scope 2 Emissions</b> [metric tons]	<b>769,500</b>
<b>Biogenic Emissions</b> [metric tons]	<b>402,000</b>
<b>Scope 3 Emissions</b> [metric tons]	<b>9,823,100</b>
<b>Water use: Global</b> [cubic meters]	<b>52,197,700</b>
<b>Solid waste</b> [metric tons]	<b>177,000</b>

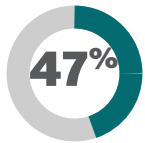
Results are preliminary and pending external audit.





# ENVIRONMENTAL IMPACT

Ensuring water quality objectives is a critical element of our operations. Effective treatment of Chemical Oxygen Demand (COD) in our waste streams is critical to minimize environmental burden on municipal treatment facilities and ultimately, downstream waterways.



47% of our manufacturing facilities have on-site industrial wastewater treatment capabilities, enabling them to treat effluents to meet strict discharge limits whereas the remaining sites discharge to regional treatment facilities.

On-site treatment facilities are a means for our sites to treat our effluents to meet strict quality standards while controlling costs. However, they also offer us a means to recover energy from our liquid waste stream, since biogas generated in these systems can be utilized to offset natural gas demand.

COD in our waste streams also present an opportunity as improving our recovery of raw materials improves the efficiencies of our operations while lessening the environmental burden. Our COD reduction goal is designed to hold us accountable to reduce the impact of our liquid waste streams and our sites are actively working to reduce COD liquid waste by driving efficiencies in yield recovery. As with our liquid wastes, the reduction of solid wastes

from our manufacturing process through circularity measures is an important area of focus. We measure the percentage of waste that is beneficially used. By recycling, farm applying, or sending organic materials to biodigesters, we are working to reduce the environmental impact compared to sending to landfills or incinerators without energy recovery. Our measures to beneficially use all portions of our raw materials is expected to have a positive impact on our wastewater COD.

The reduction of waste from our manufacturing process is also an important area of focus. For our solid waste, we measure the percentage of waste that is beneficially used. We also measure the Chemical Oxygen Demand (COD) in our wastewater streams and we focus on using all portions of our raw materials to reduce the environmental impact of our liquid waste streams.



We are committed to progressing against our Environmental Impact aspirations, not only to minimize our footprint on the planet we all share, but also to drive more efficient operations and exploring growing commercial opportunities.



*Catherine Zimmerman*  
VP Operations, Sustainability



## EXITING COAL IN OUR ARGO FACILITY

In 2021, Ingredion finalized efforts to exit coal used in our boilers at our Argo, USA facility – the largest manufacturing plant globally for the company. This work included physical and supply chain changes that needed to be completed before the switch to natural gas could be made in our boilers. This change will contribute an estimated 8% reduction in the company’s global carbon footprint, and is expected to deliver nearly a third of the reductions planned to meet our science-based climate change goal. We see this as a great first step in executing against our longer-term carbon reduction strategy.





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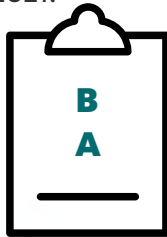
# ENVIRONMENTAL IMPACT

In March 2021, our Rafhan Maize Mehran plant in Pakistan received a notice from the local Sind Environmental Protection Agency (SEPA) regarding improperly treated effluent being discharged from the facility. An internal investigation revealed that our wastewater treatment facility was not operating properly, and we responded by immediately lowering production levels to align with the system's capacity. We then mobilized a team along with an our consultant to fix the issue before ramping up production levels again. System performance is being monitored regularly to make certain it continues to function properly.

## REPORTING THROUGH CDP

Ingredion again filed annual reports with CDP and received the following grades for 2021:

**Climate Change  
Water**



We were also pleased in 2021 to be named again as a CDP Supplier Engagement Leader, placing us in the top 8% of companies working across their supply chains to improve environmental performance.



Engaging with our customers is of increasing importance to driving environmental footprint reductions, which is why we are so pleased that CDP has recognized the work that we have done in this area.

*Eric Aaviku*  
Senior Manager of  
Environment and Climate



## CLOSING THE LOOP ON PROCESS WASTE

On-site wastewater treatment allows for an efficient means to upcycle liquid process waste into biosolids and biogas. In 2021, Ingredion's London, Ontario facility recycled approximately 46,000 kilograms of phosphorus back to local agricultural fields through land application of biosolids generated from their on-site treatment operations. Furthermore, construction was completed on an on-site third-party owned and operated facility that will refine the waste biogas into renewable natural gas, which will replace other natural gas in the utility grid.





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# ENVIRONMENTAL IMPACT

## PROMOTING RENEWABLE ENERGY

As part of our broader climate change strategy to reduce carbon emissions, we are also developing a more comprehensive strategy around our use of renewable energy. Last year, we signed an agreement to procure 100% of purchased electricity at our Cabo, Brazil facility from renewable sources starting in 2022. But this was only the first step in reaching our 2030 targets. Our work in 2021 included evaluating external standards such as RE100. These provide us with a framework to evaluate our current efforts and help develop a roadmap going forward.

Of course, we also understand that building a renewable energy strategy can be complicated, requiring detailed knowledge and expertise. In 2021, we started the engagement process with several external organizations specializing in such strategies with the aim of selecting a firm and beginning to work together in 2022.

We have also updated our accounting methodology to more clearly differentiate renewable energy that is actively procured by the company, versus what is consumed as renewables in purchased grid energy. We have done this by aligning with the GHG Protocol Scope 2, as well as RE100, guidance. Our reported percentage now represents

renewable electricity for which Ingredion has Renewable Energy Certificates (RECs) retired through projects in the United Kingdom, Peru and the United States.

## DEEPENING UNDERSTANDING THROUGH COLLABORATION

In 2021, we continued to engage with customers focused on supply chain carbon emissions. In addition to this work, we also joined the Supplier Leadership on Climate Transition (LoCT) group, a collaboration led by Guidehouse and more than 200 supplier-partners, including Mars, McCormick and PepsiCo. We see this as a great opportunity to engage with like-minded companies and identify pathways to improving our climate change mitigation strategy.

Aside from industry collaborations, we also engaged with academic institutions in this area. Notably, we participated in the Rutgers University Masters of Business Science (MSB) Externship Exchange Program. Through this program, we were able to mentor students on projects related to carbon sequestration and plastic reduction, while deepening our understanding of current science and practices in these areas.



## WORKING TO MINIMIZE PLASTIC WASTE



We used this past year to further investigate plastic use in our operations, as well as deepen our understanding of the various plastic standards and collaborations used within our industry. Specifically, we researched the Ellen MacArthur Foundation's New Plastic Economy Global Commitment to determine how to apply it across our operations. Many of our customers have adopted this standard and we are evaluating how our alignment might accelerate our own efforts to drive a more circular economy for plastics.

We also continued to refine our data collection processes to obtain more robust site information on plastic waste and recycling. Better data and analytics related to incoming plastic remain critical in our efforts to drive collaboration across our supply chain.







# BIODIVERSITY PROTECTION

## A DEEPER DIVE INTO BIODIVERSITY

Since agricultural raw materials are a crucial resource to our business, we remain dedicated to evaluating and finding ways to help protect biodiversity in our agricultural supply chain. Our longstanding practice of engagement and collaboration with our growers provides the foundation for effective dialogue on biodiversity.

We start by gathering information as part of our sustainable agriculture program (see the Sustainable and Regenerative Agriculture section of this report). We have been a member of the Sustainable Agriculture Initiative Platform (SAI Platform) since 2014, and we use their Farm Sustainability Assessment (FSA) as our standard for evaluating the farms from which we source crops. Specifically, the FSA section focused on biodiversity helps us understand where growers have already identified areas of concern.



Building on that approach in 2021, we piloted the use of data provided by the Integrated Biodiversity Assessment Tool (IBAT). Designed to improve decision-making, IBAT is the world’s most authoritative biodiversity data tool. Our pilot of the IBAT tool in the Midwestern United States provided insights at a more granular level, which we subsequently used to understand biodiversity considerations facing our growers. We intend to expand this pilot in 2022 to better inform our biodiversity protection strategy.



The release of the 2009 Planetary Boundaries Report woke up the world to the critical risk posed to our planet by the loss of biodiversity. Since then, we have seen a growing number of our stakeholders interested in understanding how we are proactively working to protect biodiversity in our supply chain. We have a real opportunity to engage with both customers and suppliers to leverage our collective knowledge and drive positive change.



**Brian Nash**  
Vice President of Corporate Sustainability





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# BIODIVERSITY PROTECTION

## PROGRESSING EFFORTS AROUND DEFORESTATION

Similar to our biodiversity approach, we are relying on the SAI Platform FSA as the starting point for identifying deforestation considerations in our agricultural supply chain. The FSA is divided into three types of questions: Essential, Intermediate and Advanced. A negative response to any essential questions automatically disqualifies the farm from being considered sustainable. One of the 23 essential questions pertains to deforestation at the farm level. As a result, the FSA directly identifies geographies where we would like to further evaluate systemic deforestation risk.

In 2021, we began conversations with technology companies that could help us evaluate our supply chain. For example, engaging with satellite companies can provide imagery and data analytics to better inform decision-making. While we are not yet ready to deploy these technological solutions, understanding their benefits and shortcomings marks an important step in this stage of our journey.

We know that deforestation is also an important issue to our stakeholders, especially our customers. We have engaged some of our customers in discussions around our mutual supply chain and are continuing to look for opportunities for engagement to mitigate deforestation.

## BIODIVERSITY HOTSPOTS AND OUR BUSINESS

Ingredion has assessed our operations and supply chain in relation to the Critical Ecosystem Partnership Fund's (CEPF) list of global biodiversity hotspots, as a starting point for a deeper assessment on how our operations and supply chain may impact, or be impacted by, biodiversity loss.

## Critical Ecosystem Partnership Fund (CEPF) Biodiversity Hotspots



### Asia-Pacific Indo-Burma

Proximity to our Operations Yes  
Proximity to Supply Chain Crop Sourcing Yes



### North & Central America Madrean Pine- Oak Woodlands

Proximity to our Operations Yes  
Proximity to Supply Chain Crop Sourcing Yes



### South America Atlantic Forest

Proximity to our Operations Yes  
Proximity to Supply Chain Crop Sourcing Yes

### Cerrado

Proximity to our Operations Yes  
Proximity to Supply Chain Crop Sourcing Yes

### Tropical Andes

Proximity to our Operations Yes  
Proximity to Supply Chain Crop Sourcing No





**Ingredion**

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Sustainable &  
Regenerative Agriculture  
Food Security  
Community Impact

C O N N E C T E D L I F E

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# SUSTAINABLE & REGENERATIVE AGRICULTURE

## EXPANDING SUSTAINABLE AGRICULTURE ACROSS OUR SUPPLY CHAIN

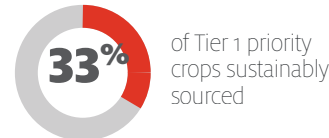
We made notable progress this past year against our sustainable agriculture goal of sustainably sourcing 100% of our Tier 1 priority crops (corn, tapioca, potato, stevia and pulses). In addition to advancing our efforts from 24% to 33% for priority crops, we also laid the foundation for even more progress in 2022 by expanding collaborations with both growers and customers.

Despite our progress, we still faced pandemic-related challenges in 2021. For example, we had difficulty conducting planned third-party audits to validate grower performance against the Platform's Farm Sustainability Assessment. In some instances, auditors were prevented from traveling or safety protocol kept them from visiting growers in areas with rising infection rates. With these challenges we joined our customers in prioritizing the safety of our growers, employees and third-party partners.

We are also pleased with the progress our PureCircle team has made in assessing our stevia farmers. 100% of growers completed the SAI Platform's FSA self-assessment, with approximately 90% of those growers having external validation audits.



## 2021 Sustainably Sourced



## COMMITMENT TO THE AGWATER CHALLENGE

The AgWater Challenge, led by Ceres and the World Wildlife Fund (WWF), engages major companies with significant agricultural supply chains in promoting leading water stewardship practices. In 2021 we were selected, along with Danone and Mars, as part of the new AgWater Challenge cohort. After completing the application process, we underwent several engagement-focused calls with Ceres and WWF to discuss our proposed commitment. For us, this commitment includes implementing regenerative agriculture practices within our supply chain, including in high water stress geographies.

Being part of the new AgWater Challenge cohort will help us leverage outside expertise in promoting more sustainable water management practices at the farm level. It also helps highlight Ingredion's commitment to protecting water as a natural resource.





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# SUSTAINABLE & REGENERATIVE AGRICULTURE

## EXPANDING WORK IN REGENERATIVE AGRICULTURE

While regenerative agriculture has received significant industry focus, there has not always been common agreement on which practices are considered regenerative. To address this, we officially became members of the SAI Platform's Regenerative Agriculture Program (RAP). This group will unite food and beverage companies in defining an industry standard for regenerative agriculture. They will also lead pilot programs to begin implementing the finalized standard with growers.

The SAI Platform's regenerative ag program will enable us to help define how we engage growers to implement practices at the farm level. It also allows us to work closely with important customers and identify opportunities to drive improvement in our mutual supply chains through collaboration.



**Andy Utterback**  
Senior Manager of Sustainability and  
Ingredion's Global Lead for Sustainable Agriculture

In conjunction with this work, we also engaged with customers in on-farm projects, including a pilot project with PepsiCo in the Midwestern United States, as well as a fertilizer project with another customer in China.



## PEPSICO-NUTRIEN REGENERATIVE AGRICULTURE PILOT

In 2021, we joined our customer PepsiCo and the Soil and Water Outcomes Fund (SWOF) in piloting regenerative agriculture practices across 15,000 acres of Illinois farms supplying corn into our U.S. operations. **The goal:** Provide a monetary incentive for growers to adopt regenerative practices, such as cover crops and no-till and measure the carbon emission reduction benefits from those practices. SWOF acted as agents on the ground, working directly to engage and enroll growers. PepsiCo and Ingredion collectively provided funding, which helped growers offset any perceived risk from implementing these practices on their farms.

The project resulted in



**15K** farm acres enrolled in the program reducing nearly



**9K** metric tons of carbon.





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# SUSTAINABLE & REGENERATIVE AGRICULTURE

## COLLABORATING TOWARD MUTUAL GOALS

Ingredion continues to work with customers to be on the cutting edge of sustainable and regenerative agriculture. This includes a collaboration with Heineken for corn growers in both Brazil and the United States. Heineken incentivized growers in both locations to adopt new practices on their farms such as innovative technologies for nitrogen application and modified timing of cover crop planting. Outputs of these new practices were measured versus previous year baselines in the Cool Farm Tool. Ingredion looks forward to scaling up this collaboration in 2022 and beyond and to leverage learnings in this project to other geographies.

I see our collaboration with customers like Heineken as critical to promoting the adoption of regenerative practices among our growers. It allows us to leverage our combined expertise and help share the value of our collective efforts across the supply chain.



**Ricardo Capone**  
Director of Agriculture Supply and Animal Nutrition Business for South America



Ingredion was also pleased to partner with one of our strategic customers and the Yara fertilizer company on a fertilizer project in China. This pilot project trialed new fertilizer techniques in an attempt to optimize application to farmers' fields. Weather challenges made it difficult to see the full effects of this pilot project, but we still view it overall as a success.

While the full benefits of the project may be difficult to determine, we are still pleased with the progress that was made. Our customer partner remains dedicated to working together with us to develop solutions that can both reduce the carbon footprint at the farm level, while also bringing at better net return per acre to the grower.



**Boon Siong Ong**  
Senior Manager, Agribusiness & Ingredient Sourcing, China





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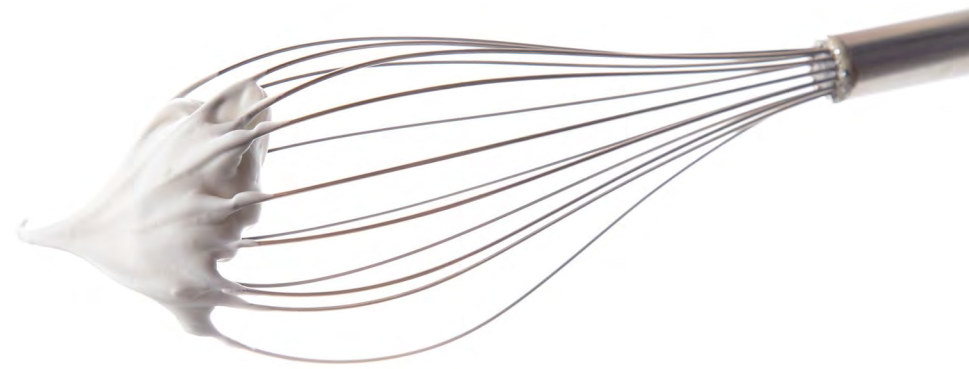
# FOOD SECURITY

## CONTINUED GROWTH IN PLANT PROTEINS

Many experts agree that alternative proteins have a vital role to play in the world achieving food security by 2030. At Ingredion, our Plant-Based Protein growth platform is well aligned to play a part in the broader evolution of our food system. Growing consumer demand for plant-based and hybrid products is expected to drive dramatic increases in sales of these products.

In 2021, we continued to make notable local investments in our plant-based protein capabilities. We brought online our facility in South Sioux City, NE, where we are continuing to scale up operations. Additionally, we made a significant expansion to our Vanscoy, Canada facility. Aligned with our high manufacturing and quality standards, including Global Food Safety Initiative certification, our new expansion produces pulse flours and concentrates using proprietary technology that generates no wastewater from the manufacturing process. This expansion was made possible by our investments, as well as investments from the Protein Industries Canada innovation supercluster, which continues its mission of accelerating the innovation of the Canadian plant protein sector.

In addition to expanding our operation, we have continued to expand our partnerships and collaboration in the



plant protein space. One example of this is our ongoing partnership with The EVERY Company. In March 2021, The EVERY Company, for which Ingredion is the exclusive go-to-market partner in North America, announced the launch of the first ever animal-free pepsin. Staying connected with innovation and thought leadership in the plant protein space is critical to our strategy in this area.

## COMMITTED TO REDUCING FOOD WASTE

Champions 12.3 is a coalition of executives from governments, businesses, and other organizations dedicated to accelerating progress toward the UN Sustainable Development Goal (SDG) 12.3. SDG 12 focuses on sustainable consumption and production, and its third goal (12.3) aims to reduce food losses along production and supply chains by 50% with a target date of 2030.

One of our strategic partners asked us to consider participating in Champions 12.3, and we immediately saw its value since the group's mission aligned so well with our own food security focus. Joining the Friends of Champions group enables us to engage with like-minded organizations to reduce food waste.



## ENGAGEMENT TO DRIVE IMPROVEMENT



The plant protein space is evolving quickly and we know how important it is to stay connected to industry organizations that are promoting plant proteins. These organizations highlight emerging trends and thought leadership while allowing us to engage with peers around challenges and best practices.



The Plant Based Products Council (PBPC) is a group of organizations advocating for a more circular bioeconomy through greater adoption of renewable, plant-based materials supported by appropriate end-of-life infrastructure. They educate stakeholders and advocate for programs and policies that will support growth of the plant-based products industry, helping to harness its environmental and economic potential to deliver a more sustainable future.



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# COMMUNITY IMPACT

## THE IMPORTANCE OF COMMUNITIES

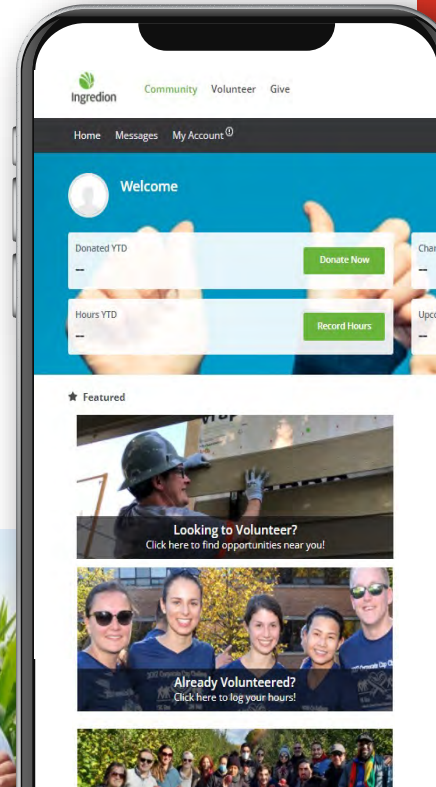
Ingredion has a long history of supporting the communities in which we operate. Our past efforts have included activities such as cleaning up and protecting nearby ecosystems, repopulating fish in a local river that provides a food source for the community and helping women entrepreneurs form businesses to increase their family income. We believe that in addition to bringing economic growth to our communities, we also have an obligation to be actively engaged in making life better for our neighbors.

With the launch of our All Life plan, we have established a roadmap for aligning our passion for helping others with the broader needs of society set out in the UN Sustainable Development Goals. By doing this, we hope to focus our efforts to drive the greatest impact.



In 2021 we began implementing YourCause, a global Corporate Social Responsibility (CSR) software to enable our employees to engage with nonprofit organizations around the world. YourCause will empower employees to live our purpose, and support giving back to the communities in which we operate. The platform allows for the creation and tracking of volunteer events and for the processing of donations to eligible charitable organizations.

To further these efforts, we evaluated our four Community Impact focal areas against the geographies in which we operate. This will help us establish engagement strategies for our facilities in 2022 and beyond with the technology of YourCause as an enabling tool.



# 20,900 LBS

of food were donated by Ingredion North America employees to various food pantries across the region.







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# COMMUNITY IMPACT

## OUR WORK WITH THE GLOBAL FOODBANKING NETWORK

The need to support hungry people in need has only risen during the pandemic, and we are proud to continue our collaboration with The Global FoodBanking Network (GFN) to identify opportunities for support. While past efforts have focused on volunteering, we are also aware of growing financial needs during the pandemic. To that end, we made a significant financial contribution:



The Global  
FoodBanking  
Network®

**\$25K**  
donated in 2021

In August, we furthered our commitment to combatting hunger by signing GFN's Product Donation Agreement. Its intent is to encourage our facilities to collaborate with GFN members to donate excess to local food banks in their communities when possible.

We have a history of donating corn oil to our local food banks but wanted to grow that commitment.

**Estefania Barraza**  
Sustainability Coordinator,  
Ingredion Mexico



In this same spirit, Ingredion Mexico enhanced their existing collaboration with Food Bank Mexico (BAMEX).

Ingredion Mexico joined forces with BAMEX to work across organizations and supply chains to find ways to minimize waste and get food to people who most need it. BAMEX is a long-standing member of the GFN network of food banks.



## SUPPORTING EDUCATION IN OUR COMMUNITIES

At Ingredion, we have a long history of supporting education and the academic development of young people in our communities. At our heart, we are an innovation company that combines science and nature to create products that make life better. We continue to look for opportunities to support Science, Technology, Engineering and Math (STEM) development, particularly with female students in areas where they may not be traditionally drawn to these disciplines.

We were pleased to continue our participation in Rutgers University's MBS Externship Exchange program, which enables us to mentor students while they provide valuable work on a key project. And yet another example of our engagement was the collaboration between Ingredion ABLE (Alliance of Black Employees) and The Hatchery Chicago, a non-profit food business incubator. Our two organizations came together to host a back-to-school night for local neighborhood children near the incubator, providing nearly 250 backpacks full of supplies to kids in need.

Sometimes our support of education goes beyond the normal classroom. In 2021, employees at Ingredion Colombia launched an entrepreneurship program in alliance with the Fundación Colombia Comparte called "Ideas that make life better." Proposals were submitted by local community members, from which 25 were selected for the first generation of the program. Participants received 27 weeks of training to help refine and develop their entrepreneurial ideas.





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# GOVERNANCE

## ENHANCING SUSTAINABILITY GOVERNANCE

In 2021, we saw increased demand from stakeholders – both internal and external – around sustainability and the need for data and transparency. It is as important as ever to maintain and, where necessary, enhance our governance practices to match that focus.

This past year, we made changes to improve governance and oversight of sustainability within our organization. As we signaled in last year’s sustainability report, we created an ESG Executive Advisory Committee to oversee our Global Sustainability Council and provide more timely guidance to that group. We also used the World Economic Forum (WEF) Core Metrics as a framework for evaluating our Board of Directors’ oversight of various sustainability topics. In turn, this assessment enabled us to review our board charters to ensure they reflect those responsibilities.



### ECOVADIS

We continued to use the EcoVadis online assessment. In 2021, we completed another assessment of our sustainability program through EcoVadis and again received a Silver rating, increasing our score from 56 in 2020 to 62 in 2021. Our biggest opportunity for improvement remains Sustainable Procurement, and we have developed plans for improvement, which we will continue to execute against in 2022 and beyond.

### EMPLOYEE ANTI-CORRUPTION TRAINING

This past year, we again conducted training for our employees on how to live our values in line with Ingredion’s Code of Conduct.



Employees completed training on anti-corruption and anti-bribery, which included information such as legal requirements, how to spot potential issues of concern and the appropriate mechanisms for reporting concerns. The new values-based Code of Conduct sets behavioral expectations and provides guidance on ethical decision-making and ethics reporting channels so that employees can more easily seek advice, ask questions or report concerns.



## IMPROVING ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORTING

To better provide the information that a growing number of stakeholders seek, we are including our Global Reporting Initiative (GRI) Index and a new Taskforce on Climate-related Financial Disclosure (TCFD) Index as an appendix to this report. We hope that this will make it easier for our stakeholders to find the information they are looking for relative to Ingredion’s Environmental, Social and Governance (ESG) activity.

## INFORMATION SECURITY

Ingredion’s board Audit Committee also has oversight with respect to the status of corporate security, the security for our electronic data processing, information systems and the general security of our people and assets. The Audit Committee and board receive updates at their regularly scheduled meetings, including metrics, highlights and risks surrounding cyber security. Twice a year the Company’s Chief Digital and Information Officer reports to the Audit Committee on Information Security controls, risks, guidelines and developments. The Chief Digital and Information Security Officer oversees the Global Information Security Team and works in partnership with our Internal Audit group to review information security and technology-related internal controls and controls processes. Our company-wide Information Security training program includes security awareness training, regular phishing simulations and other targeted communications and trainings throughout the year.

Ensuring our employees understand our Code of Conduct, and how we live our values, is critical to continuing to operate as an ethical company.

*Kimberly White*  
Global Compliance Officer





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# GOVERNANCE

Ingredion's Business Integrity program is built on three strategic pillars:

## 1 CULTURE & COMMUNICATION

The Business Integrity Office provides advice and counsel to employees, managers and leaders, advancing our culture of integrity with training, communication, policies and reporting tools to help each member of our global team “lead with integrity.” Our training programs cover topics such as anticorruption and bribery, conflicts of interest, competition law, anti-harassment, non-retaliation and information security. Code of Conduct training, which is annual and mandatory, includes employee certification. During the 2021 training campaign, Ingredion recorded a >99.1% certification rate of all employees globally, with Ingredion executive leadership certification rate at 100%.

## 2 GOVERNANCE & ACCOUNTABILITY

The Business Integrity Program governance is designed to be globally led and locally implemented. The governance structure allows for report, feedback and accountability throughout the organization. Business Integrity has built cross-functional partnerships with Internal Audit, Human Resources and Information Security to support risk assessments, policy implementation, training completion, program monitoring and auditing. Compliance matters are routinely discussed with senior leadership at quarterly Compliance Committee meetings, as well as during regular touchpoints with Executive leaders through Regional Compliance Committees and Executive Functional updates. Compliance matters are also discussed by the Chief Legal Officer/Chief Compliance Officer in quarterly Global Compliance Governance Committee meetings with the Ingredion Board's Corporate Governance and Nominating Committee.

## 3 RISK MANAGEMENT

In 2021, Ingredion implemented an enhanced third-party due diligence tool to strengthen its processes on Third-Party Risk Management. Deployment of this tool has allowed greater insight and visibility into new and existing third-party risk.

Business Integrity regularly conducts risk assessments to inform and enhance the program, policies, training and other program offerings. To support our Speak Up Culture, in 2021 Business Integrity provided training to internal investigators to build internal investigation processes that are objective, respectful, fair and timely.

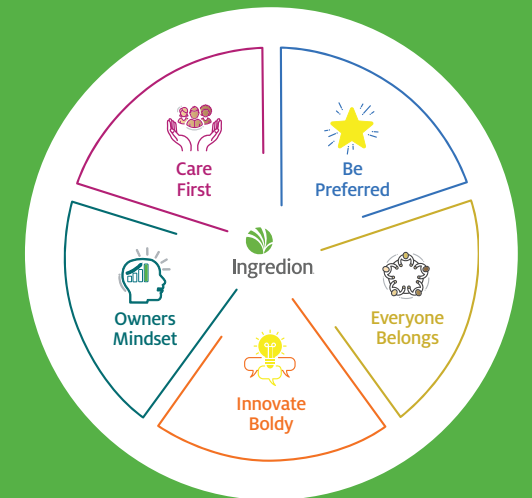
Ingredion's Business Ethics Line, available 24/7/365, is a key resource which allows employees, and other stakeholders, to ask questions and raise concerns, confidentially, in their preferred language. In addition to the Ethics Line, employees may also report matters to any manager directly or to Human Resources. Regardless of how a matter is raised, the Business Integrity team tracks and monitors all reported matters. Allegations of misconduct are investigated as appropriate and confidentiality is maintained to the fullest extent possible. All reporters are reminded that Ingredion has a strict non-retaliation policy. Business Integrity routinely provides training on non-retaliation and follows up with reporters to monitor compliance with non-retaliation policy.

## BUSINESS INTEGRITY IS PARAMOUNT TO OUR SUCCESS

We conduct ourselves with integrity in our interactions with each other, our customers, our suppliers and the communities where we live and work. Ingredion's commitment to ethical business practices is enshrined in our Code of Conduct, entitled, Living Our Values, our Global Supplier Code of Conduct, in which we set the expectation that our suppliers commit to Ingredion's ethical business practices and in our Business Integrity Program.

## BUSINESS INTEGRITY PROGRAM'S MISSION AND VISION

Business Integrity's mission is to provide Ingredion leaders and employees with the right tools, resources and information to make the right decisions and support our Speak Up culture of high performance with integrity. Business Integrity Program is integral to Ingredion's business strategy and partners with our leaders to drive our high standards of ethics and integrity in our business conduct and practices.



# WHAT'S NEXT IN SUSTAINABILITY

I would like to personally thank you for your interest in Ingredion's sustainability report. The goals we aspire to are challenging and I am very proud of the progress we continue to make. That being said, I recognize we still have a lot of work ahead to reach our 2030 targets. When I reflect on the launch of our *All Life* plan in 2020 and the progress we have made in such a short period of time, I see a couple of very noteworthy items. First, how Ingredion employees have embraced our sustainability journey, and second, the growing interest and willingness of our stakeholders to engage and collaborate with us in sustainability.

More and more, our employees are reaching out to me or members of our Global Sustainability Council to share their ideas or find out how they can better engage in support of our *All Life* plan. Because of this interest and engagement, we are seeing sustainability woven into the fabric of our functional activities and our overall business strategy. I have seen great passion from our employees, who share my commitment to make Ingredion the most sustainable company it can be. Whether that's through having a positive impact in the communities in which we operate, or being a part of our customers' solutions to achieve their sustainability goals, the diverse perspectives and innovative spirit of our employees are definitely making a difference.

And it's not just our employees who are showing a strong interest in sustainability. Many of our customers are on their own journey, and we have seen a considerable increase in inquiries and sustainability-related engagement. Many of our customers have committed to science-based targets, and we have seen a rising number of them reaching out to us as a strategic partner to discuss how we can reduce Scope 3 carbon emissions in their supply chain. These growing customer requests have only strengthened my belief that we need to work closely with our stakeholders to meet our sustainability challenges. I know there is great value to be realized across the supply chain in collaborating and pursuing the opportunities these challenges create.

I hope you are pleased with the progress we have made and that you will continue to follow our sustainability journey. I thank you again for reading our report and wish you a wonderful year ahead.



**Sincerely,**  
**Larry Fernandes**  
Senior VP, Chief Commercial  
and Sustainability Officer







## Organizational Profile

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
102-1	Name of the organization	Ingredion Incorporated		
102-2	Activities, brands, products and services	2021 Sustainability Report		Additional information on our products can be found at <a href="http://www.ingredion.com">www.ingredion.com</a> .
102-3	Location of the headquarters	Chicago, Illinois (USA)		
102-4	Location of operations	2021 Annual Report		Additional information on our locations can be found at <a href="http://www.ingredion.com">www.ingredion.com</a> .
102-5	Ownership and legal form	2021 Annual Report		
102-6	Markets served	2021 Annual Report		
102-7	Scale of the organization	2021 Annual Report		
102-8	Workforce information	2021 Annual Report		
102-9	Supply chain	2021 Annual Report		
102-10	Significant changes to the organization and its supply chain	In 2021, Ingredion's operations in Argentina shifted to a joint venture (JV) with Grupo Arcor, with Arcor having 51% operational control over the JV		We have recalculated the 2019 baseline for our environmental targets to reflect the removal of the Argentina manufacturing plants.
102-11	Precautionary Principle or approach	Ingredion has various risk management processes that are utilized to evaluate our operations, as well as proposed changes to our operations. Changes may include items such as business acquisitions, equipment upgrades/additions, or new products and/or raw materials.		
102-12	External initiatives	2021 Sustainability Report		Ingredion is involved in many external initiatives related to sustainability, some of which are highlighted in our report.
102-13	Membership of associations	2021 Sustainability Report	17	Ingredion is a member of multiple organizations with a sustainability focus, including the SAI Platform, Field to Market, The Campbell Institute and others.



## Strategy

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
102-14	Statement from senior decision-maker	2021 Sustainability Report (p. 2)		Our report includes statements from our CEO and CSO.
102-15	Key impacts, risks and opportunities	2021 CDP Water questionnaire 2021 CDP Climate Change questionnaire 2021 CDP Forest questionnaire	13	

## Ethics and Integrity

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
102-16	Values, principles, standards and norms of behavior	Code of Conduct; Our Values (Ingredion website)	16	The Code of Conduct can be accessed at <a href="http://www.ingredionincorporated.com/CorporateResponsibility/CodeofConduct">www.ingredionincorporated.com/CorporateResponsibility/CodeofConduct</a> .
102-17	Mechanisms for advice and concerns about ethics	Code of Conduct		Ingredion utilizes a number of mechanisms for ethics, including items such as open-door policies and an anonymous reporting line.

## Governance

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
102-18	Governance structure	Ingredion Incorporated Corporate Governance Principles		The Principles can be accessed at <a href="http://www.ingredionincorporated.com/investors/Governance">www.ingredionincorporated.com/investors/Governance</a> .
102-20	Executive-level responsibility for economic, environmental and social	2021 Sustainability Report (p. 33)		Ingredion's Governance and Nominating Committee of the Board of Directors has oversight responsibility for sustainability.
102-21	Consulting stakeholders on economic, environmental and social topics	2021 Sustainability Report	17	Ingredion engages with customers, investors, NGOs, trade associations, and other stakeholders to obtain input on a variety of topics.



## Governance

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
102-22	Composition of the highest governance body and its committees	2021 Sustainability Report (p. 33)	5	
102-23	Chair of the highest governance body	2021 Sustainability Report (p. 33)		
102-24	Nominating and selecting the highest governance body	Ingredion Incorporated Governing and Nominating Committee Charter; Ingredion Incorporated Corporate Governance Principles		The Charter and Principles can be accessed at <a href="http://www.ingredionincorporated.com/investors/Governance">www.ingredionincorporated.com/investors/Governance</a> .
102-25	Conflicts of interest	Code of Conduct (p. 19)		The Code of Conduct can be accessed at <a href="http://www.ingredionincorporated.com">www.ingredionincorporated.com</a> .
102-26	Role of highest governance body in setting purpose, values and strategy	Ingredion Incorporated Corporate Governance Principles	16	The Board regularly reviews the strategy and objectives of the company and our sustainability efforts. The Principles can be accessed at <a href="http://www.ingredionincorporated.com/investors/Governance">www.ingredionincorporated.com/investors/Governance</a> .
102-27	Collective knowledge of highest governance body	Ingredion Incorporated Governing and Nominating Committee Charter		The Governance and Nominating Committee Charter covers sustainability responsibility, as well as stipulations for seeking Resources and Consultants where appropriate. The Charter can be accessed at <a href="http://www.ingredionincorporated.com/investors/Governance">www.ingredionincorporated.com/investors/Governance</a> .
102-28	Evaluating the highest governance body's performance	Ingredion Incorporated Corporate Governance Principles Ingredion Incorporated Governing and Nominating Committee Charter		The Principles and Charter can be accessed at <a href="http://www.ingredionincorporated.com/investors/Governance">www.ingredionincorporated.com/investors/Governance</a> .
102-29	Identifying and managing economic, environmental and social impacts	2021 Sustainability Report		Aside from the general governing responsibility of the Board of Directors, the Governance and Nominating Committee of the Board has direct oversight for sustainability.





## Governance

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
102-30	Effectiveness of risk management processes	Ingredion Incorporated Corporate Governance Principles Ingredion Incorporated Governing and Nominating Committee Charter	5	The Principles and Charter can be accessed at <a href="http://www.ingredionincorporated.com/investors/Governance">www.ingredionincorporated.com/investors/Governance</a> .
102-31	Review of economic, environmental and social topics	2021 Annual Report; 2021 Sustainability Report		Ingredion's Annual Report is the primary mechanism for updates on economic performance, while our Sustainability Report covers environmental and social topics.
102-32	Highest governance body's role in sustainability reporting	2021 Sustainability Report (p. 33)		Ingredion's global Sustainability Council operates under the guidance of the Governance and Nominating Committee of the Board of Directors.
102-33	Communicating critical concerns	Concerns can be communicated by any employee (1) to the executive leadership team directly or through managers, (2) to the corporate Business Integrity Committee directly or through anonymous reporting hotline, or (3) to the Corporate Compliance Officer who communicates independently with the Board of Directors		
102-35	Remuneration policie	2021 Annual Report Governance (Ingredion website)		
102-36	Process for determining remuneration	Ingredion Incorporated Compensation Committee Charter		The Charter can be accessed at <a href="http://www.ingredionincorporated.com/investors/Governance">www.ingredionincorporated.com/investors/Governance</a> .
102-37	Stakeholder's involvement in remuneration	Ingredion Incorporated Compensation Committee Charter	102-36	The Charter can be accessed at <a href="http://www.ingredionincorporated.com/investors/Governance">www.ingredionincorporated.com/investors/Governance</a> .
102-38	Annual total compensation ratio	2022 Proxy Statement		The proxy statement is available on Ingredion's investor relations website.



## Stakeholder Engagement

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
102-40	List of stakeholder groups	2021 Sustainability Report (various listed throughout)		Ingredion engages with customers, investors, NGOs, trade associations and other groups to solicit input and feedback on our sustainability efforts. Some of these stakeholder groups and their engagements are referenced in our Sustainability Report. Others are not referenced explicitly due to constraints on space in the Sustainability Report or confidentiality concerns.
102-41	Collective bargaining agreements	45% of Ingredion’s manufacturing plants have collective bargaining agreements in place.		Per our internal Social Accountability Management System, employees have the right to establish collective bargaining agreements. Our labor practices across our manufacturing operations are audited utilizing 4-pillar Sedex Member Ethical Trade Audits (SMETA).
102-42	Identifying and selecting stakeholders	Ingredion has conducted an internal stakeholder assessment, which examined the overlap between areas most important to our sustainability strategy and our existing stakeholder engagement. We utilize this assessment to inform where we may solicit additional stakeholder input.		
102-43	Approach to stakeholder engagement	We engage with stakeholders in two ways: (1) as a part of regularly scheduled meetings through organizational membership, and (2) on an as-needed or as-requested basis		Ingredion undertakes stakeholder engagements as a normal course of business, and not solely for the preparation of our annual Sustainability Report.
102-44	Key topics and concerns raised	The most common topics of discussion from stakeholders between 2020-2021 included climate change, sustainable sourcing (sustainable agriculture) and human rights		



## Reporting Practice

# GRI CONTENT INDEX

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
102-45	Entities included in the consolidated financial statement	2021 Annual Report		
102-46	Defining report content and topic boundaries	2021 Sustainability Report		Ingredion's All Life plan was developed based upon stakeholder analysis and materiality assessment. Reporting against our sustainability pillars addresses the key points of these assessments.
102-47	List of material topics	2021 Sustainability Report (p. 9) CDP Climate Change and Water reports		Our Sustainability Report contains a Materiality Matrix to highlight key topics.
102-48	Restatements of information			There were no restatements of information in Ingredion 2021 Sustainability Report.
102-49	Changes in reporting	2021 Sustainability Report		The only significant change to our reporting in 2021 was from our Argentina facilities being removed due to the joint venture with Grupo Arcor.
102-50	Reporting period	2021 Sustainability Report		Ingredion provides updates on our efforts on an annual basis.
102-51	Date of most recent cycle	2021 Sustainability Report		Ingredion reports on sustainability on an annual, calendar year basis.
102-52	Reporting cycle	Ingredion's Sustainability Reports are issued annually and based on calendar year		
102-53	Contact point for questions regarding the report	Inquiries about this GRI Index or Ingredion's sustainability program can be directed to corpcomm@ingredion.com		
102-54	Claims of reporting in accordance with the GRI Standards	Ingredion does not currently make any such reporting claims		
102-55	GRI content index	This document is the GRI content index		
102-56	External assurance	2021 CDP Water 2021 CDP Climate Change 2021 Sustainability Report		Data reported in Ingredion's 2021 CDP Water and Climate Change questionnaires are verified by Apex. Additionally, volumes covered by Ingredion's sustainable sourcing program are also reviewed and assured externally by Apex.





## Management Approach

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
103-1	Explanation of the material topic and its boundaries	2021 Sustainability Report (The content of our report is based on those topics most material to our business.)		Ingredion utilizes the Sustainability Accounting Standards Board (SASB) Materiality Map as an external benchmark to help validate our internal materiality assessment.
103-2	The management approach and its components	2021 Sustainability Report		Ingredion’s approach to sustainability, as well as our goals and targets, are covered by our All Life plan, which is outlined in our 2019 and 2020 Sustainability Reports.
103-3	Evaluation of the management approach	Ingredion’s Global Sustainability Council regularly reviews our sustainability approach. Our ESG Executive Advisory Committee now oversees the recommendations of the council, as well as other changes that might impact our strategy or approach. Ultimately, our board of directors and its committees have oversight of sustainability.		

## Economic Performance

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
201-1	Direct economic value generated and distributed	2021 Annual Report		
201-2	Financial implications and other risks and opportunities due to climate change	2021 CDP Climate Change	13	
201-3	Defined benefit plan obligations and other retirement	2021 Annual Report		



## Indirect Economic Impact

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
203-1	Infrastructure investments and services supported	Any such investments are made at the local or regional level and are not collected at this time at the corporate level		Our report includes statements from our CEO and CSO.
203-2	Significant indirect economic impacts	This information is not currently collected at the corporate level within Ingredion	13	

## Procurement Practices

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
204-1	Proportion of spending on local suppliers	Ingredion manages this activity at the regional or local level and does not currently have the data to report this at the corporate level		The majority of the agricultural crops we use globally as raw materials are locally sourced. However, the exact amount can fluctuate based on a variety of factors such as yields, weather, price, etc.

## Anti-Corruption

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
205-1	Operations assessed for risks related to corruption	As part of our risk management processes, Ingredion continually assesses our operations for risks related to corruption, as well as other activities related to compliance with local laws and/or our policies on business conduct	16	
205-2	Communication and training about anti-corruption policies and procedures	All employees receive ethics training and sign off on Ingredion's Code of Conduct, as well as our company values	16	Anti-corruption and bribery training was conducted globally in 2021.



## Anti-Competitive Behavior

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
206-1	Legal action for anti-competitive behavior, anti-trust and monopoly practices	There were no legal actions against Ingredion in 2021 for anti-competitive behavior.	16	

## Materials

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
301-2	Recycled input materials used	This information is not currently collected at the corporate level		The primary raw materials in Ingredion products are agricultural crops, which are not recycled material, but are from renewable sources.
301-3	Reclaimed products and their packaging material	This information is not currently collected at the corporate level within Ingredion		

## Anti-Corruption

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
302-1	Energy consumption within the organization	2021 CDP Climate Change	13	
302-2	Energy consumption outside the organization	2021 CDP Climate Change	13	
302-3	Energy intensity	2021 CDP Climate Change	12, 13	
302-4	Reduction of energy consumption	2021 CDP Climate Change	12, 13	
302-5	Reduction in energy requirements of products and services	2021 CDP Climate Change	12, 13	





## Water

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
303-1	Water withdrawal by source	2021 CDP Water	6	
303-2	Water sources significantly impacted by withdrawal of water	2021 CDP Water	6	
303-3	Water recycled and reused	2021 CDP Water	6	

## Biodiversity

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
304-1	Operational sites owned, leased, managed in, or adjacent to protected areas and areas of high biodiversity value outside protected areas	This information is not currently collected at the corporate level within Ingredion	15	For more information, please see the Biodiversity Protection section of our 2021 Sustainability Report.
304-2	Significant impacts of activities, products, and services on biodiversity	2021 Sustainability Report	15	
304-3	Habitats protected or restored	2021 Sustainability Report	15	Engagement in support of local habitats is ongoing, but has been impacted by restrictions due to the COVID-19 pandemic.
304-4	IUCN Red List species and national conservation list species with habitats in areas impacted by operations	While Ingredion has assessed our operations against the CEPF global biodiversity hotspot list, we have not yet assessed our operations against the IUCN Red List		



## Emissions

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
305-1	Direct (Scope 1) GHG emissions	2021 CDP Climate Change 2021 Sustainability Report	13	
305-2	Energy indirect (Scope 2) GHG emissions	2021 CDP Climate Change 2021 Sustainability Report	13	
305-3	Other indirect (Scope 3) GHG emissions	2021 CDP Climate Change	13	Details of our relevant Scope 3 emissions across the 15 categories can be found in our CDP Climate Change report.
305-4	GHG emission intensity	2021 CDP Climate Change	13	
305-5	Reductions of GHG emissions	2021 CDP Climate Change 2021 Sustainability Report (p. 20)	13	
305-6	Emissions of Ozone Depleting Substances (ODS)	This information is not currently collected at the corporate level within Ingredion		

## Effluents and Waste

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
306-1	Water discharge by quality and destination	2021 CDP Water	6	
306-2	Water by type and disposal method	2021 CDP Water	6	
306-5	Water bodies affected by water discharges and/or runoff	2021 CDP Water	6, 14	Water basins potentially impacted by operations are identified utilizing the WWF Water Risk Filter.



## Environmental Compliance

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
307-1	Non-compliance with environmental laws and regulations	Ingredion discloses fines and non-monetary sanctions as required by the laws and regulations applicable to its operations including, among others, SEC reporting requirements		Ingredion did not have any significant environmental fines (<\$100,000) in 2021.

## Supplier Environmental Assessment

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
308-1	New suppliers that were screened using environmental criteria	2021 Sustainability Report 2021 CDP Climate Change		We are working to enroll non-agricultural suppliers in Sedex, which includes environmental risk components. Agricultural suppliers are assessed using SAI Platform's Farm Sustainability Assessment, which also contains environmental criteria.

## Employment

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	Benefits, and their variance between full-time and part-time employees, vary by country and region. These benefits may also be impacted by any collective bargaining agreements that are in place		Benefits can include items such as paid holidays, health care insurance, bonus compensation, parental leave, educational tuition reimbursement and other such items.
401-3	Parental leave	Parental leave varies by country and region, and is managed locally in accordance with legal requirements		In 2019 Ingredion enhanced its parental leave policies to extend maternity leaves, offer paternity leave for employees, and more accurately define benefits for adoptions and other similar considerations.





## Labor / Management Relations

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
402-1	Minimum notice period regarding operational changes	Notice periods across our operations can vary depending on local legal requirements and collective bargaining agreements		

## Occupational Health and Safety

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
403-1	Workers representation in formal joint management-worker health and safety committees	All Ingredion manufacturing facilities have health and safety committees made up of workers and members of the local management team. The exact make-up of these teams may differ by location and be dictated by local law and/or collective bargaining agreement.		
403-2	Types of injuries and rates of injury, occupational disease, lost days and absenteeism, and the number of work-related fatalities	2021 Sustainability Report		The company reports Total Recordable Incidence Rates for employees and contractors. While information on occupational disease and lost days are collected, these are not reported publicly at this time.
403-3	Workers with high incidence or high risk of disease related to their occupation	Ingredion has identified no such high-risk groups within the organization	3	Ingredion tracks work-related injuries and illnesses on an on-going basis, and this data is regularly assessed for trends so that mitigation actions can be taken.
403-4	Health and safety topics covered in formal agreements with trade unions	A variety of health and safety topics may be covered in formal agreements with various trade unions across our global operations	3	Ingredion has an internal Environmental, Health and Safety Management System which covers our global operations and sets minimum standards of practice. This management system is aligned with ISO 14001 and OHSAS 18001 criteria.



## Training and Education

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
404-1	Average hours of training per employee	2021 Sustainability Report	3	Environmental, Health and Safety (EHS) training is tracked at the corporate level, as is training such as Lean Six Sigma (LSS). However, there may be additional training at the local or regional level that is not reported at the corporate level.
404-2	Programs for upgrading employees' skills and transition assistance programs	2021 Sustainability Report		Ingredion tracks some training activities globally, such as employees trained in Lean Six Sigma (LSS). Many additional skills-based training activities are coordinated at the local or regional level and are not reported at the corporate level. Ingredion has established targets around increasing training hours as part of our 2030 All Life plan.

## Diversity and Equal Opportunity

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
405-1	Diversity of governance bodies and employees	2021 Bloomberg Gender Equality Index 2021 Sustainability Report 2021 DEI Report	5	As part of our reporting to the Bloomberg Gender Equality Index, we provide a variety of data on diversity. For example, we reported 22.4% of women in our total workforce, and 30% female representation on our Board.



## Freedom of Association and Collective Bargaining

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	2021 Sustainability Report	8	Ingredion assesses our manufacturing operations with third-party Sedex Member Ethical Trade Audits (SMETA), which include interviews of employees around a variety of human rights considerations. To date, no issues have been identified where collective bargaining rights are at risk. Ingredion is in the process of defining risk criteria which will inform SMETA audits with suppliers.

## Child Labor

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
408-1	Operations and suppliers at significant risk for child labor	2021 Sustainability Report	8	Ingredion utilizes Sedex/SMETA to assess suppliers, and the SAI Platform as our global program for assessing agricultural suppliers. Our agricultural supply represents our biggest potential risk for child labor issues, however, we utilize an assessment protocol that looks for child labor in farming operations. Approximately 98% of our global crop sourcing is from corn and tapioca, which are not typically associated with child labor risks. No instances of child labor were identified in our supply chain in 2021.





## Forced or Compulsory Labor

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
409-1	Operations and suppliers at significant risk for forced or compulsory labor.	2021 Sustainability Report	8	Ingredion uses Sedex/SMETA as the primary mechanism to assess non-agricultural suppliers and SAI Platform to assess agricultural suppliers. No incidents of forced labor were found through these mechanisms in 2021.

## Security Practices

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
410-1	Security personnel trained in human rights policies or procedures	This information is not currently tracked at the corporate level		Training activity is currently managed at a local or regional level within Ingredion, and therefore training information is not available at the corporate level at this time. Training resources for Ingredion’s Social Accountability Management System have been provided across the business, as has training in our Code of Conduct and company values.

## Rights of Indigenous People

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
411-1	Incidents of violations involving rights of indigenous people	Ingredion is not aware of any issues or violations in our operations involving the rights of indigenous people  2021 Sustainability Report	16	Ingredion’s internal Social Accountability Management System addresses the rights of indigenous people, as well as processes for obtaining Free, Prior and Informed Consent (FPIC). We utilize external tools such as the LandMark Map to help identify geographic areas where considerations involving indigenous peoples may exist.



## Human Rights Assessment

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
412-1	Operations that have been subject to human rights reviews or impact assessments	2021 Sustainability Report		Ingration manufacturing sites are assessed using third party Sedex Member Ethical Trade Audits (SMETA).
412-2	Employee training on human rights policies or procedures	Ingration has implemented an internal Social Accountability Management System, which outlines our human rights practices and includes associated training. Additionally, all employees are trained on Ingration's Code of Conduct, which includes our policy on Human Rights.		Training activity is currently managed at a local or regional level within Ingration, and therefore training information is not available at the corporate level at this time.
412-3	Significant investment agreements and contracts that include human rights clauses or that underwent human rights screening	These agreements or contracts may be managed at the local, regional, or corporate level. This information is not currently tracked at the corporate level.		

## Local Communities

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
413-1	Operations with local community engagement, impact assessments and development programs	2021 Sustainability Report		Ingration does not have a centrally coordinated local community impact assessment process at this time.



## Supplier Social Assessment

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
414-1	New suppliers that were screened using social criteria	2021 Sustainability Report		Ingredion has a program to assess key suppliers through Sedex, SMETA, or similar programs.

## Marketing and Labeling

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
417-3	Incidents of non-compliance concerning marketing communication	No incidents of marketing non-compliance were identified in 2021		

## Customer Privacy

NUMBER	DESCRIPTION	CROSS-REFERENCE/RESPONSE	SDG LINK	ADDITIONAL COMMENTS
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	Ingredion had no such complaints made by our customers		



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# TCFD INDEX: RECOMMENDED DISCLOSURES

RECOMMENDATION	DISCLOSURES	REFERENCE
<b>Governance</b>	<p>Describe the organization’s governance around climate-related risks and opportunities</p> <p>Describe management’s role in assessing and managing climate-related risks and opportunities</p>	<p>2021 CDP Climate Report (C1.1a-b)</p> <p>2021 CDP Climate Report (C1.1b, C1.2)</p>
<b>Strategy</b>	<p>Describe the climate related risks and opportunities the organization has identified over the short, medium and long term</p> <p>Describe the impact of climate-related risks and opportunities on the organization’s business, strategy, and financial planning</p> <p>Describe the resilience of the organization’s strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario</p>	<p>2021 CDP Climate Report (C2.3, C2.4)</p> <p>2021 CDP Climate Report (C3)</p>
<b>Risk Management</b>	<p>Describe the organization’s process for identifying and assessing climate-related risks</p> <p>Describe the organization’s processes for managing climate-related risks</p> <p>Describe how processes for identifying, assessing and managing climate-related risks are integrated into the organization’s overall risk management</p>	<p>2021 CDP Climate Report (C2.1, C2.2)</p> <p>2021 CDP Climate Report (C2.1, C2.2)</p> <p>2021 CDP Climate Report (C2.1, C2.2)</p>
<b>Metrics and Targets</b>	<p>Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process</p> <p>Disclose Scope 1, Scope 2 and, if appropriate, Scope 3 greenhouse gas emissions and the related risks</p> <p>Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets</p>	<p>2021 CDP Climate Report (C2.2)</p> <p>2021 CDP Climate Report (C6)</p> <p>2021 CDP Climate Report (C4.1, C4.2)</p>





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# TCFD INDEX: SUPPLEMENTAL SECTOR DISCLOSURES

FINANCIAL CATEGORY	CLIMATE-RELATED CATEGORY	METRIC	REFERENCE
<b>Revenues</b>	Risk Adaptation & Mitigation	Revenues/savings from investments in low-carbon alternatives	2021 CDP Climate Report (C4.3b)
<b>Expenditures</b>	Water	Total water-withdrawal and total water consumed  Percent of water withdrawn and consumed in regions with high or extremely high baseline water stress	2021 CDP Water Report (W1.2b)  2021 CDP Water Report (W1.2d)
	GHG Emissions	Purchased energy (Scope 2) emissions from purchased heat, steam and electricity consumed in company-owned plants	2021 CDP Climate Report (C8.2a)
<b>Assets</b>	Water	Number of company-owned production sites in regions with high or extremely high baseline water stress	2021 CDP Water Report (W4.1b, W4.2)
	Risk Adaptation & Mitigation	Investments (CapEx) in low carbon/water alternatives	2021 CDP Climate Report (C4.3b) 2021 CDP Water Report (W4.3, W7.2)