

A yellow robotic arm is positioned in the foreground, reaching towards a large industrial machine. The machine has a control panel with a screen and various buttons. The background shows a factory floor with a green conveyor belt and other industrial equipment. The text "Central Coast Industry Connect Limited" is overlaid in the center of the image.

Central Coast Industry Connect Limited

Agenda

- Who is Central Coast Industry Connect?
- Central Coast manufacturing industry overview
- Our opportunities.
- The role of Hydrogen



Central Coast industry Connect (CCIC)

- Not for profit organization that supports the manufacturing sector to unlock opportunities through Collaboration.
- In existence since 2012.
- We have around 140 manufacturers on our data base and 60 service organizations.
- Industry based board.
- Industry connectors.

CC Manufacturing Economic data

	Total	Food & Beverage Chemical product	Engineering/machinery Manufacturing	Building/ Construction
Number of Manufacturers	941	11%	27%	32%
Total Output	\$3.3 billion	\$1.4 billion	\$959M	\$288M
Value Add	\$915M	\$327M	\$298M	98M
Export value	\$1.57 billion	\$706M	\$464M	\$164M
Total Employment	8681	2903	2485	1896
Source: National Institute of Economic and Industry Research (NIEIR) 2019-2020				

Predominately Small manufacturers.

Small number of large manufacturers that have a big impact on the sector.

Diverse range of manufacturers providing some stability.



Food and Beverage sector a major opportunity

- The economic data shows Food & Beverage as the major opportunity.
- We worked with RDACC to establish the Central Coast Food Innovation Region initiative.
- Signed an MOU with RDACC and UoN to agree to collaborate to drive the CC reputation as an Internationally renowned Centre of Excellence in food innovation.
- UoN food science school at Ourimbah.
- UoN establish's the Food and Agribusiness Doctorial training Centre.
- Central Coast Primary industries Centre- Centre of Excellence for market Access and Greenhouse Horticulture.



Formation of Central Coast Food Alliance

- We have a number of major food players , Mars , Sara Lee, Agrana Sanitarium, Life Health Foods, Cordina Group, Tip Top Bakeries.
- A number of smaller innovative and entrepreneurial manufacturers.
- Successful in gaining Funding from Food Innovation Australia Limited to set up the Central Coast Food Alliance.
- Established a forum of CEO's of major Food companies to set the direction of the industry locally and to support the clusters steering committee.
- State and Federal Government support making Central Coast a Food manufacturing and innovation hub.

Hydrogen and Food

- Our Global food companies are already working towards carbon free technologies for their factories.
- Electricity has moved to renewable sources.
- Gas for heat continues to be a challenge in processing-baking, frying, cooking and steam generation for cleaning and sanitizing.
- CEO's see a great opportunity working with Star to find a viable solution to supplying carbon free heat after visiting their facility.
- The opportunity to scale the process for big and small users.



Formation of Central Coast Hydrogen Food Cluster

Star Scientific and CCIC sign a MOU to

- Position the Central Coast region as a leader in heat generated from hydrogen technologies.
- Establish the cluster together with Star Scientific, Industry and other parties to commercialize the technology.
- Pilot the HERO[®] technology in real life industrial situation.
- Be part of the regulatory development through the implementation of the technology in collaboration with Hydrogen industry stakeholders.
- Look at how the technology can be applied for other uses.



Alignment with strategies for the Industry

- Alignment with Growth Centre 'Industry Knowledge Priority' areas identified in FIAL's 'Sector Competitiveness Plan 2020'
 - Support business's ability to translate the impact of sustainability initiatives into relevant messages for Consumers, Customers, Employees, Researchers and Government.
 - The initiative strongly aligns with the aspiration to enable the Food industry to adopt climate change mitigation strategies and engage in more sustainable value chain practices
- *Alignment to Opportunity Area #19 - 'Energy Smart Food', in FIAL's Capturing the prize' report, which forecasts a benefit of A.\$6 billion in 2030 .*
 - The need to make the food and agribusiness sector more energy-efficient offers another opportunity to generate more value.
 - Australian businesses are feeling the pressure of sustainable manufacturing drivers more so than many other countries, providing an incentive to be first movers.

Alignment with strategies for the Industry

- *Alignment with the Federal Government's Food and Beverage Roadmap objectives –*
 - Supports development of modern manufacturing capabilities and capacity to create more value-added products that meet consumer and market demand and ensure the retention of local talent and attraction of skilled overseas talent.
- *Alignment with CSIRO's Advanced Manufacturing Roadmap -*
 - The roadmap highlights sustainable manufacturing and specifically identifies reducing emissions from manufacturing through 'cleaner energy sources' as an opportunity for growth and competitive advantage



Thank You

www.centralcoastindustryconnect.com.au