



Knowledge grows

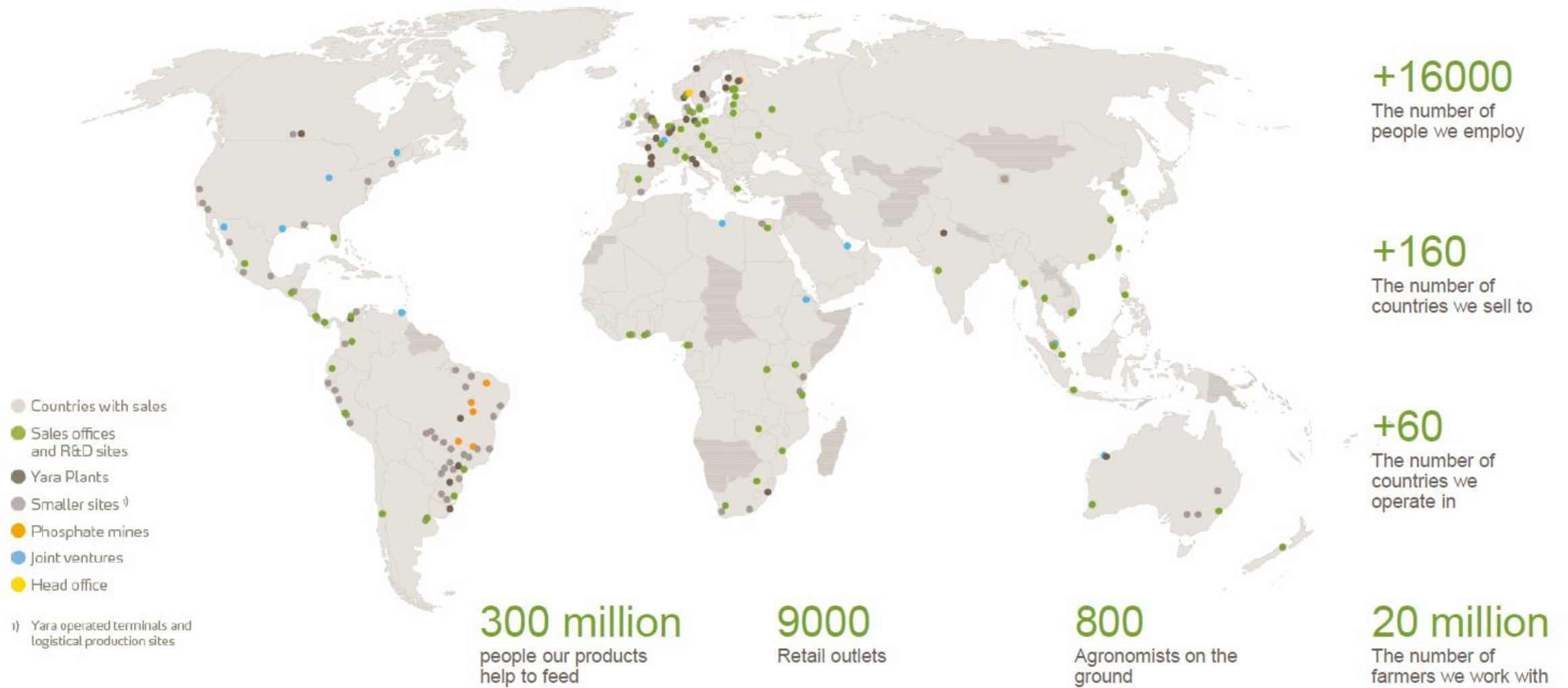
Renewable ammonia production – a foundation for scale-up

Ammonia Energy Association
Australia 2021 Conference

Luke Blackbourn
Manager Government & External Relations
Yara Pilbara



Yara's global presence



Yara International initiatives

Things are moving rapidly:

16th Aug 2021	Yara, Aker, Statkraft form HEGRA to decarbonise Yara's ammonia plant at Herøya (>500,000t ammonia per year)
9th June 2021	Yara's CEO joins WEF Alliance of CEO Climate Leaders
7th June 2021	Trafigura & Yara Sign MoU to Explore Opportunities in Clean Ammonia
2nd June 2021	Nordic consortium reveals promising outlook for a green ammonia-powered vessel
11th May 2021	Yara & JERA to collaborate on clean ammonia to decarbonise power production in Japan
5th May 2021	YARA & ENGIE welcome a A\$42.5 million ARENA grant



Australian Production

Yara Pilbara

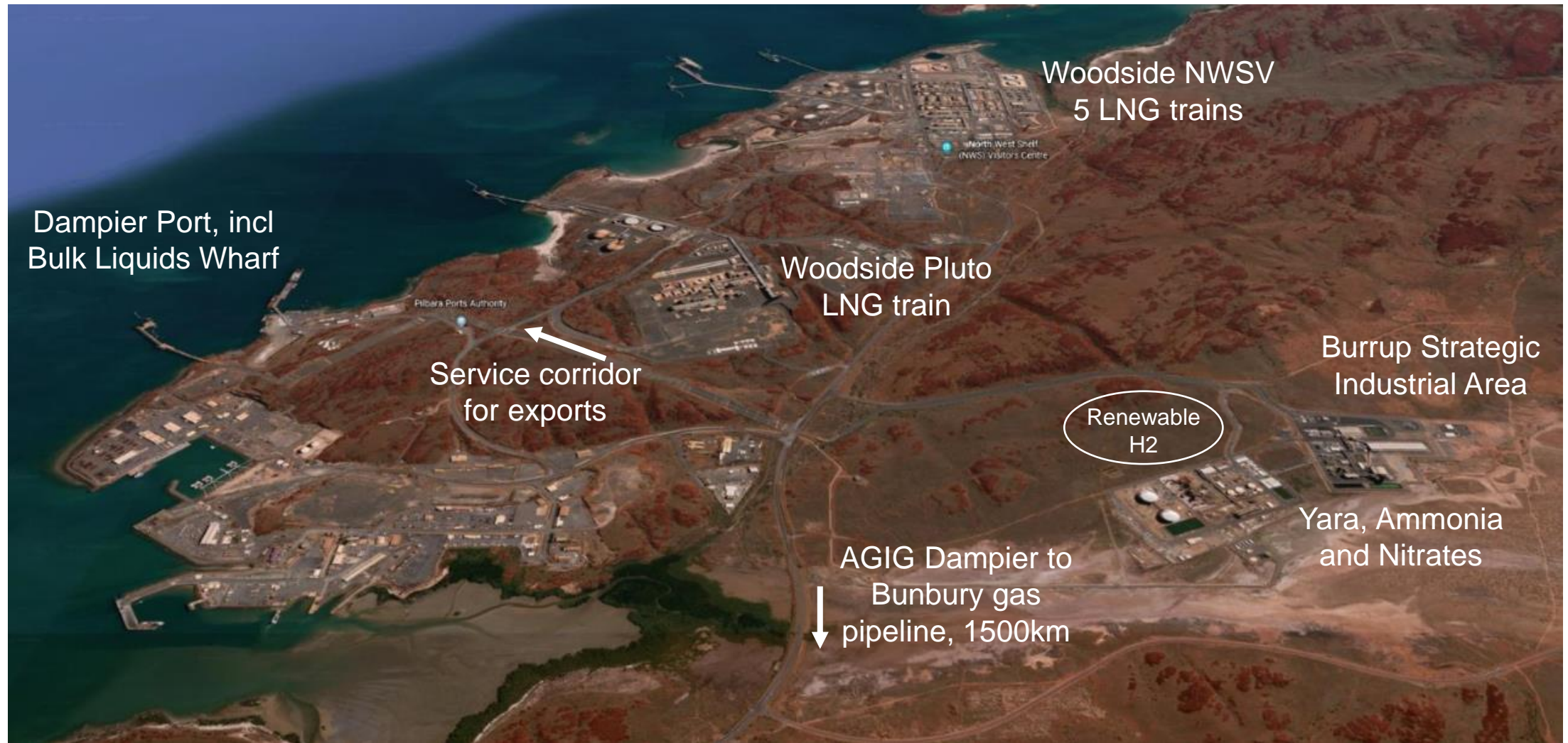
- Only downstream processing plants in the Pilbara region
- One of the worlds largest single train ammonia plants and storage facility commissioned in 2006
- Supplying ~5% of the worlds traded ammonia to the Australian and International market
- Worlds first modular Technical Ammonium Nitrate (TAN) plant commissioned in 2017
- TAN supporting the local mining and agricultural industries
- 200+ employees based in Karratha



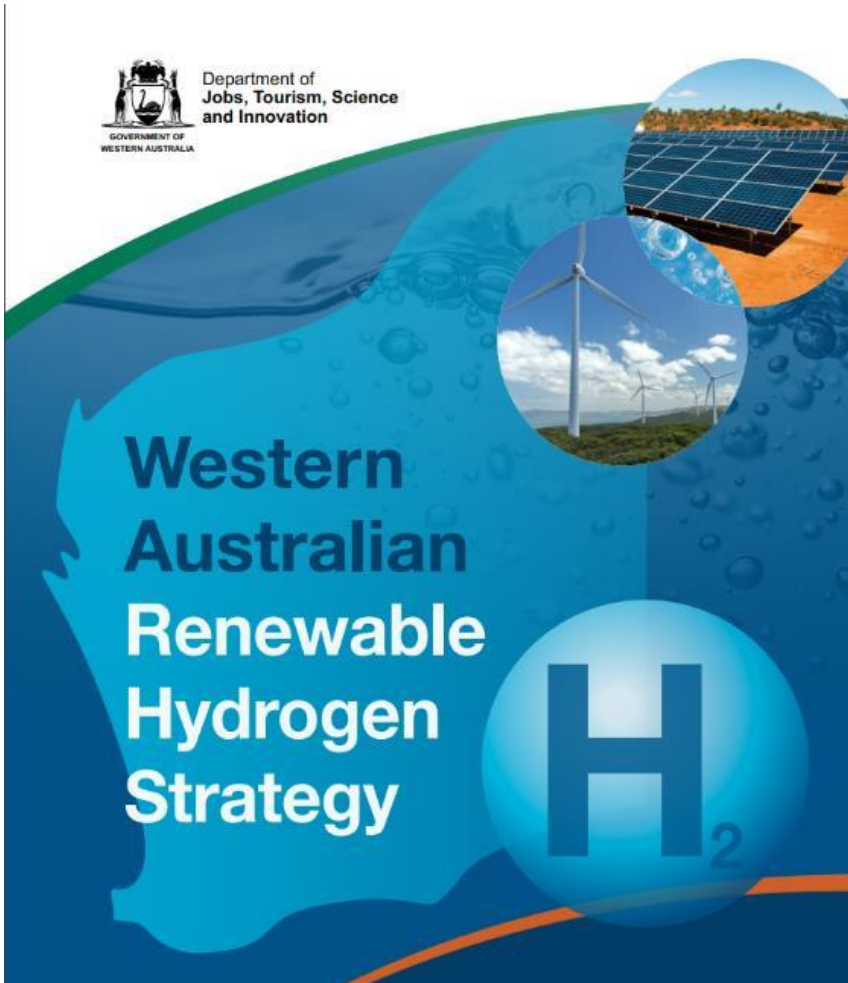
YURI Phase 0 Renewable H₂ Plant (estimated mid-2023)



Local assets



Roadmap: Western Australian Renewable Hydrogen Strategy



Four Strategic Focus Areas

- Export
- Remote applications
- Hydrogen blending in natural gas networks
- Transport



It is a race

the japan times

THE INDEPENDENT VOICE IN ASIA

UAE sells another blue ammonia shipment to Japan in push toward hydrogen



Abu Dhabi National Oil Co. (ADNOC) will ship blue ammonia to INPEX Corp. for use in power generation in Japan. | BLOOMBERG

Aug 19, 2021

The United Arab Emirates sold its third shipment of blue ammonia to Japan, as the oil producer looks to build a hydrogen industry as it plans for the transition of global energy.

• NATURAL GAS NEWS

ITOCHU INKS HYDROGEN PACT IN AUSTRALIA



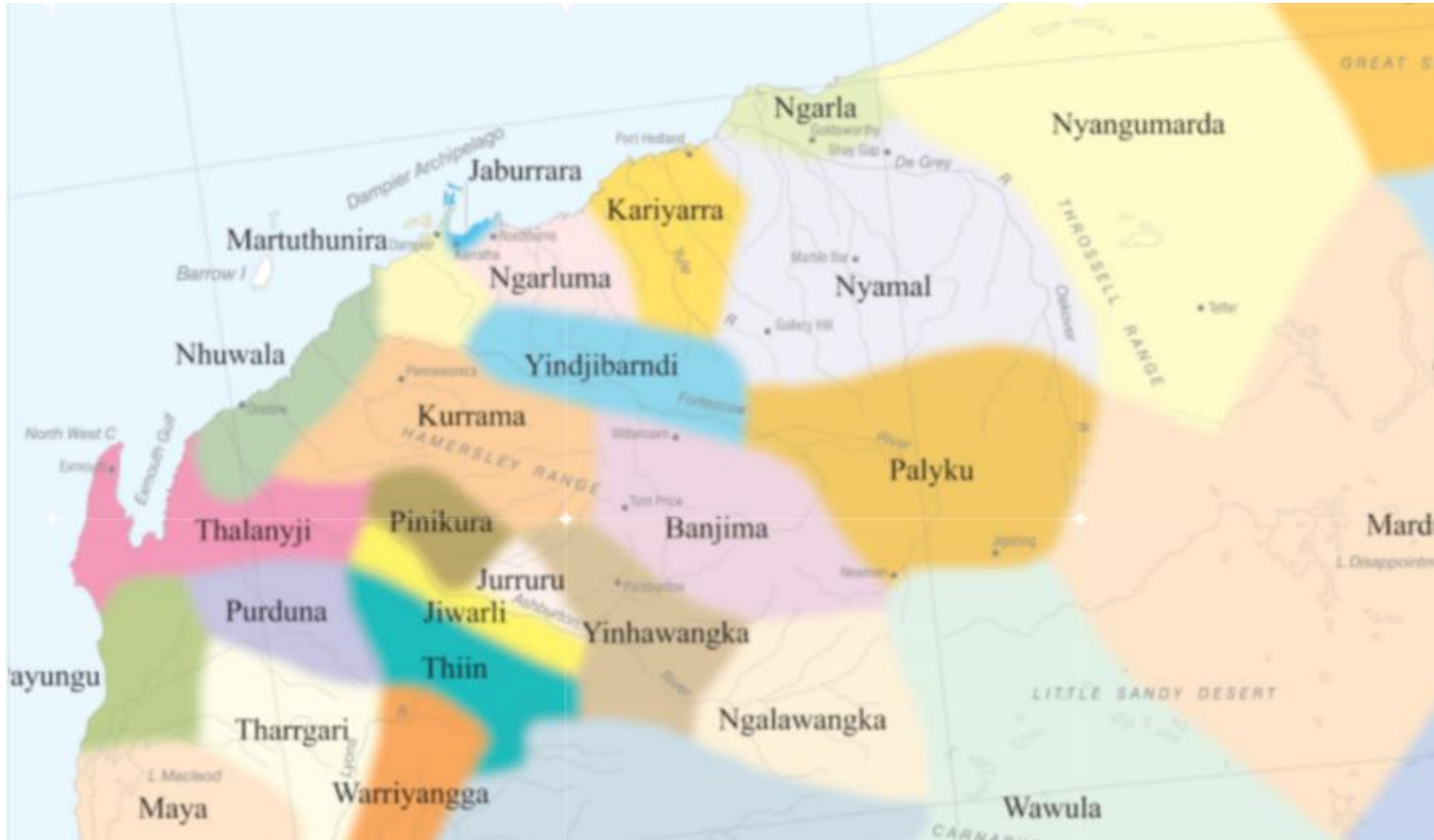
Aug 19, 2021 9:05:am

Itochu, Dalrymple Bay Infrastructure, North Queensland Bulk Ports, and Brookfield Asset Management will look to produce and store hydrogen utilising port land at the Dalrymple Bay Terminal in Queensland.

Japan's Itochu Corp signed an agreement with Dalrymple Bay Infrastructure (DBI), North Queensland Bulk Ports, and Brookfield Asset Management to conduct a feasibility study on the production and storage of green hydrogen in Australia, it said on August 18.

The companies will jointly explore the feasibility of producing and storing green hydrogen utilising port land at the Dalrymple Bay Terminal (DBT), which is owned by the Queensland state government and operated by DBI. They will also look at establishing a supply chain including exporting green hydrogen using DBT's existing export facilities.

Partnership



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