Delivering an LNG Mega Project on the coast of British Columbia

Vancouver Shipping Lunch

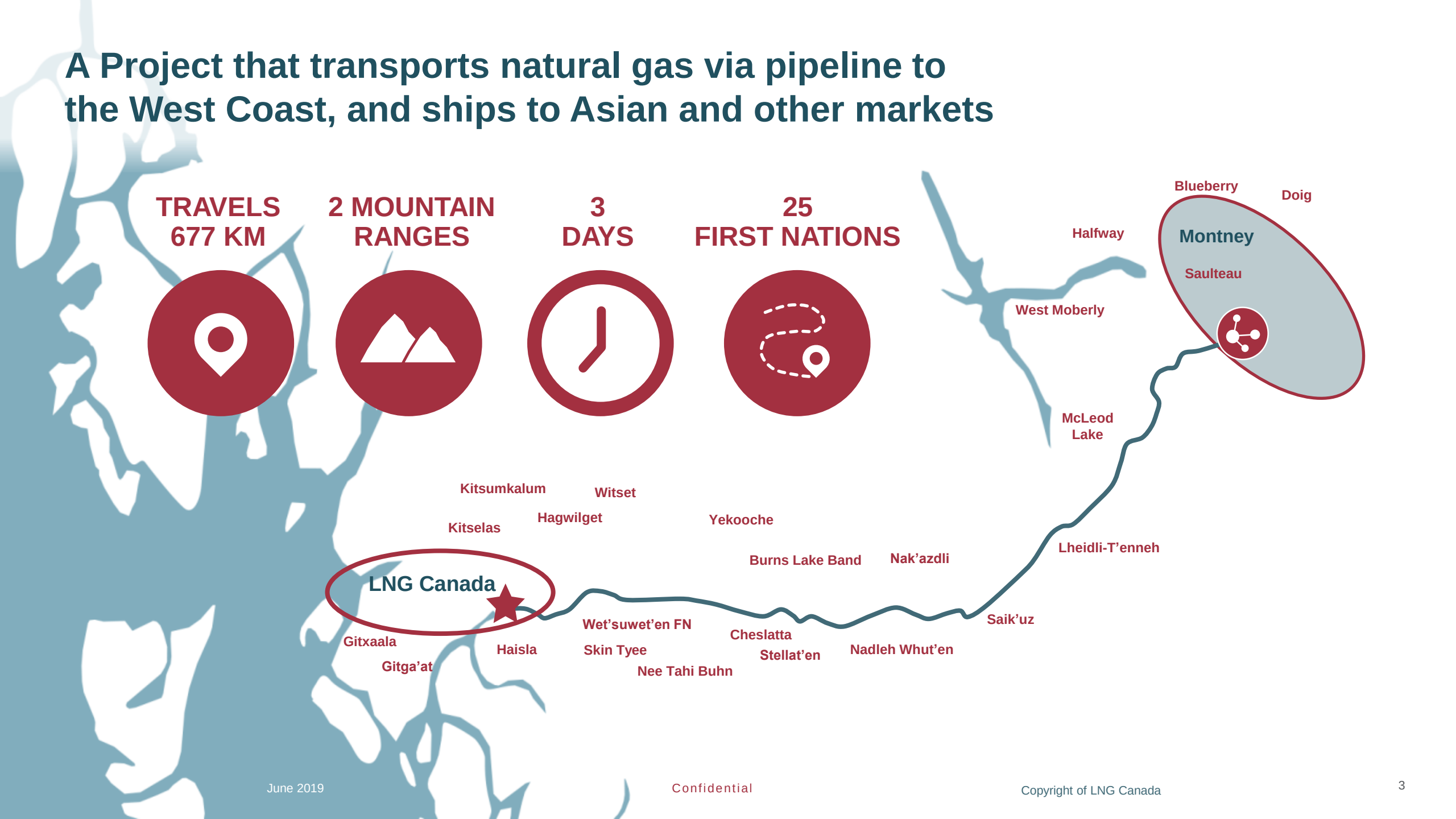
LNG CANADA
Opportunity for British Columbia. Energy for the world

Copyright of LNG Canada

What is LNG Canada?

Copyright of LNG Canada

A Project that transports natural gas via pipeline to the West Coast, and ships to Asian and other markets



Confidential
Copyright of LNG Canada

A joint venture among 5 international energy companies with experience in all aspects of LNG development

Shell

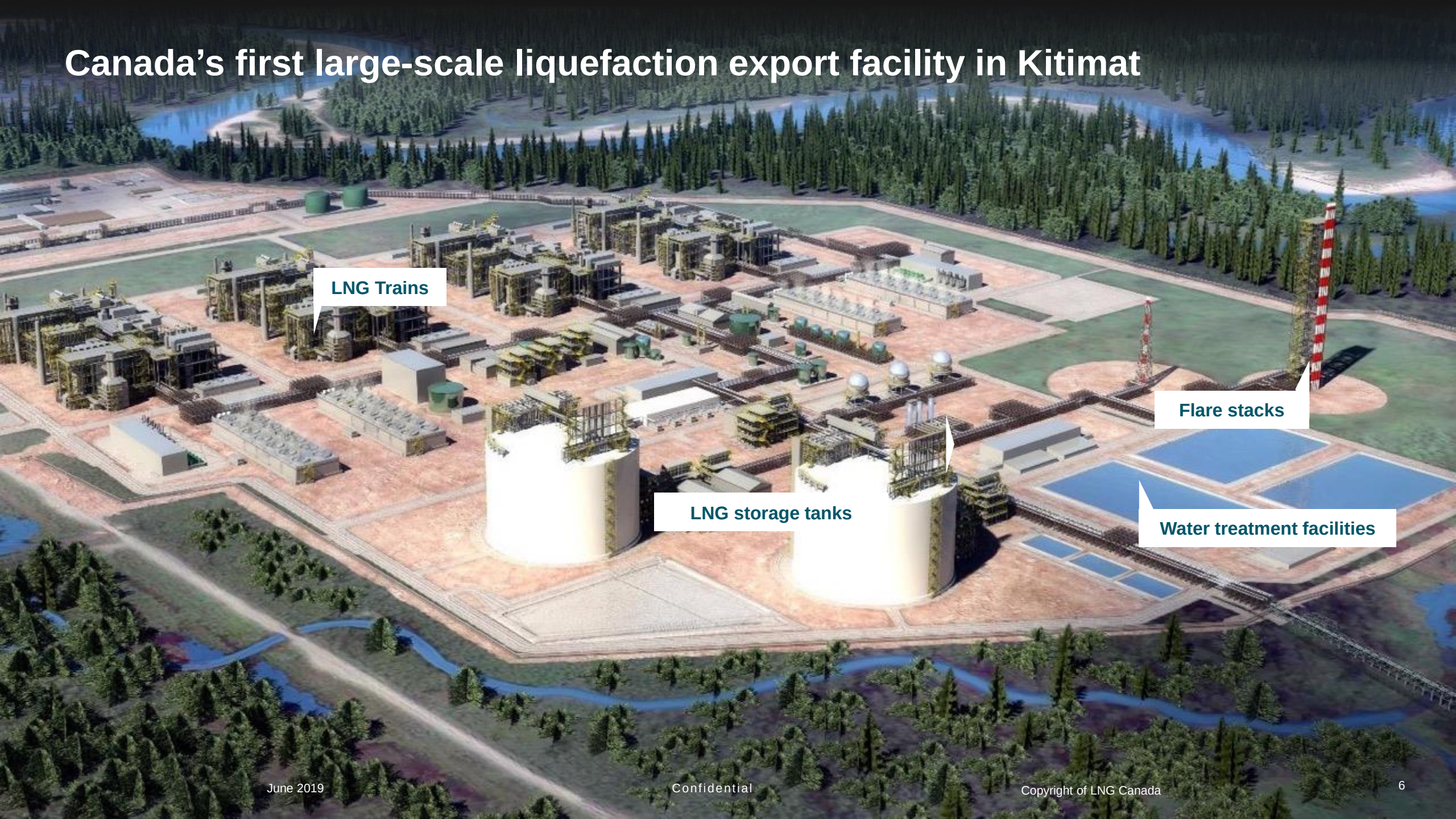
PETRONAS

PetroChina

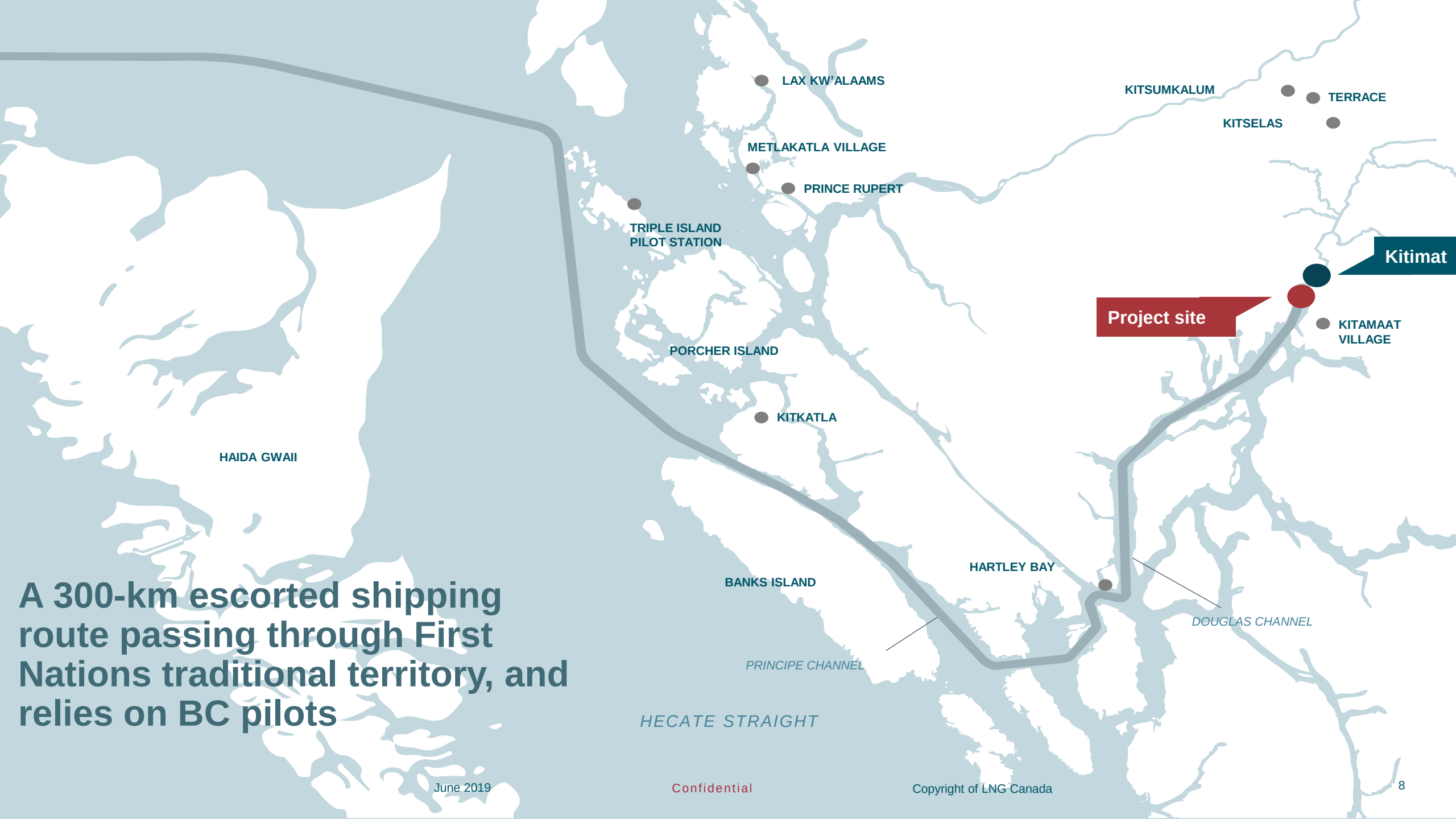
Mitsubishi Corporation

KOGAS

Canada’s first large-scale liquefaction export facility in Kitimat



Copyright of LNG Canada



A 300-km escorted shipping route passing through First Nations traditional territory, and relies on BC pilots

Confidential
Copyright of LNG Canada

How will we build the LNG Canada facility?

Copyright of LNG Canada

With a global team in offices around the world

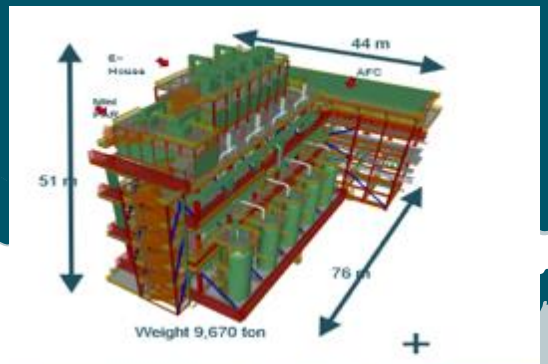
Confidential
Copyright of LNG Canada

With JGC-Fluor under a lump sum contract

JGC FLUOR

Confidential
Copyright of LNG Canada

By building modules in China and transporting them across the Pacific to Kitimat



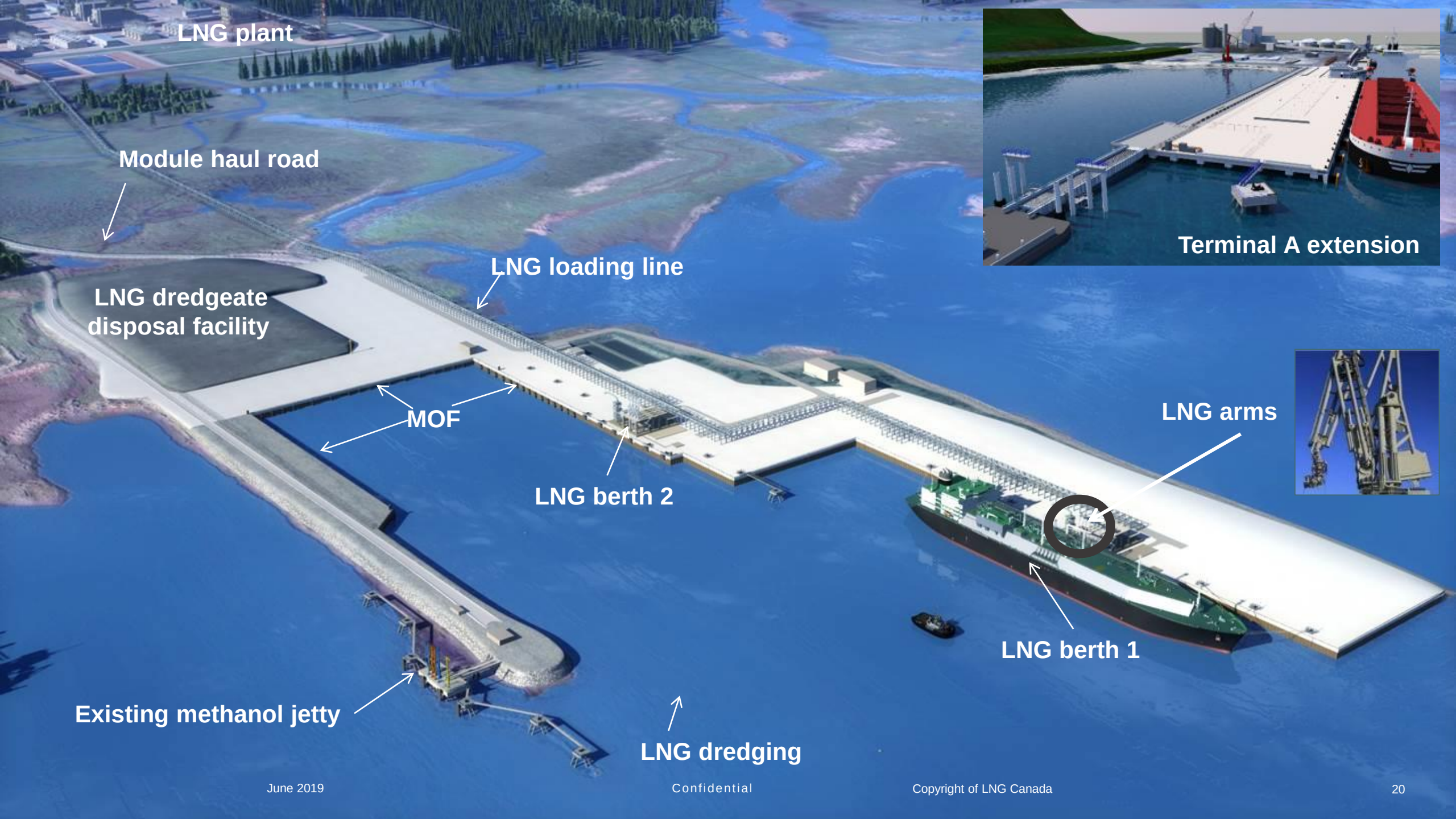
Key facts:

- 145 modules
- Total Weight ~ 260,000 tons
- Total Volume ~ 3.8 million m^3
- ~ 330 Axle Self Propelled Modular Transporters per module

JGC FLUOR

Pictures are courtesy of JGC, a Joint Venture partner for the Engineering, Procurement and Construction of the LNG Facility

Copyright of LNG Canada

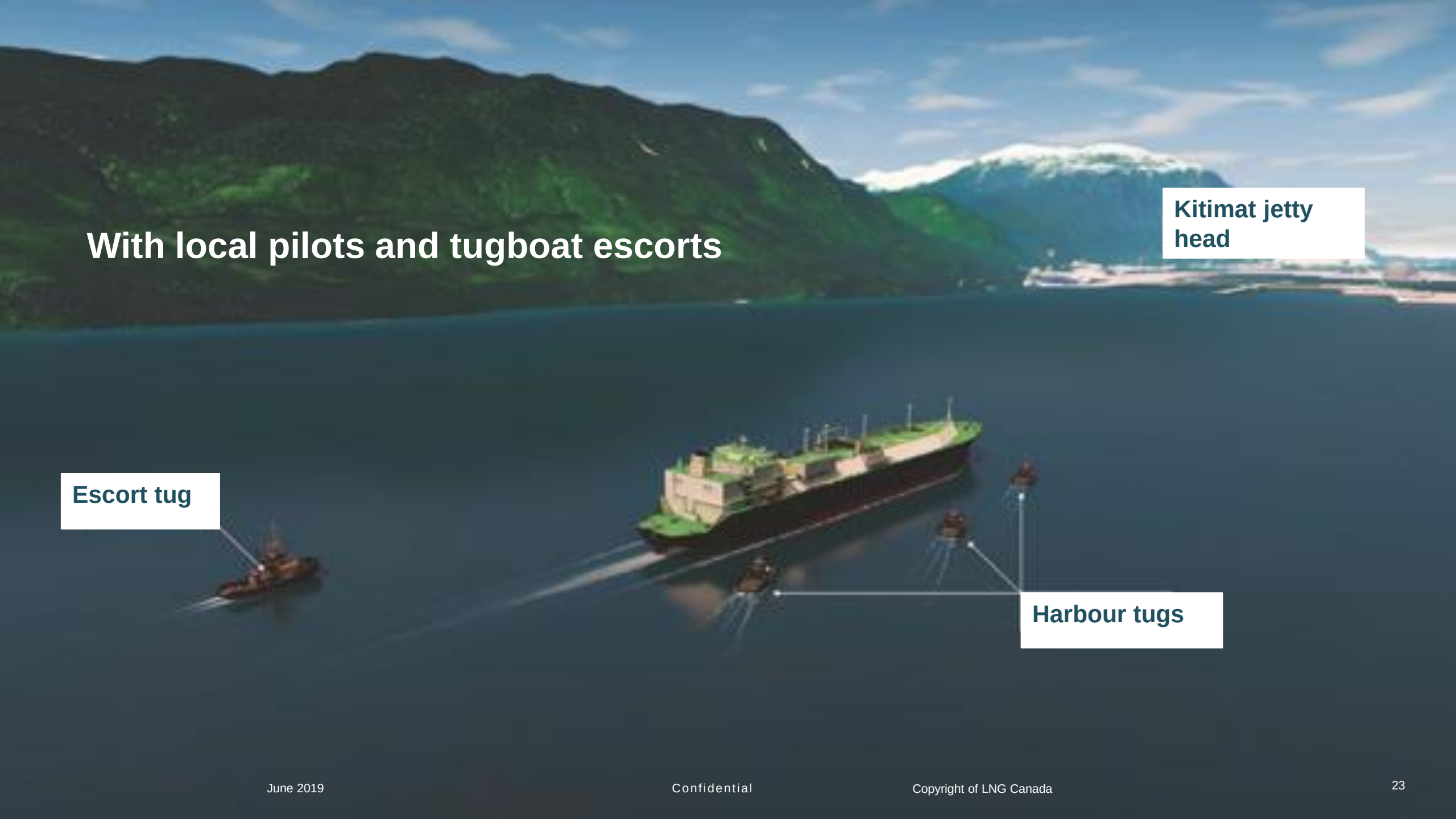


Copyright of LNG Canada

How will we safely ship LNG to Asia?

Copyright of LNG Canada

With local pilots and tugboat escorts



Copyright of LNG Canada

By early participation in a TERMPOL review and implementing recommendations

Copyright of LNG Canada

With specially-designed LNG vessels

The water depth along the shipping route is very deep - up to **400 metres** in some places

LNG carriers have a maximum draft of **12.5 metres**

An LNG carrier is roughly **the same length**

as an Alaskan-bound cruise ship

The marine route at its minimum width is more than **4X wider** than required for the safe passage of two large ships

LNG has one of the best shipping records of any industry

More than **425 LNG carriers** across the world have safely delivered over **84,000 cargoes**

Up to **350** LNG vessel arrivals every year are expected at the LNG Canada terminal at full build-out

Q&A

Copyright of LNG Canada

LNG CANADA

Opportunity for British Columbia. Energy for the world

Joint venture companies

PETRONAS

Mitsubishi Corporation