Mysticetus Commercial Realtime Data Sharing

Conservation Benefits: Reduce Risk of Vessel Strikes on Animals, in certain cases all the way to ***Absolute Zero***.

Commercial Benefits: Prevent expensive shutdowns, saving tens of thousands of dollar$$ ***PER INCIDENT***.

Commercial Requirement: Each developer needs to control when their data is shared, and with whom

North Atlantic Right Whale
Vessel Strike Prevention Event

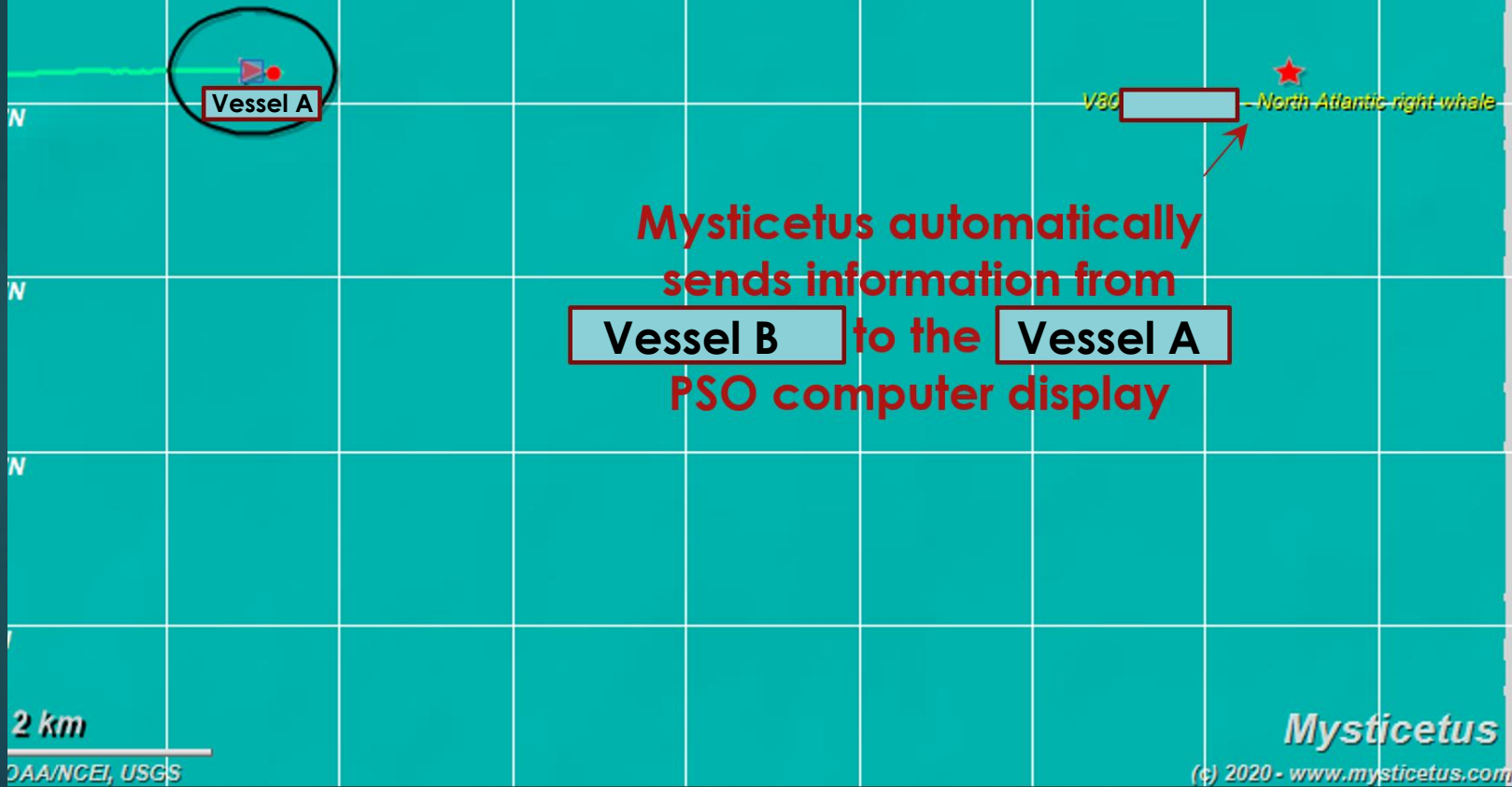16:17:02 UTC – [Vessel A] is surveying

Vessel A

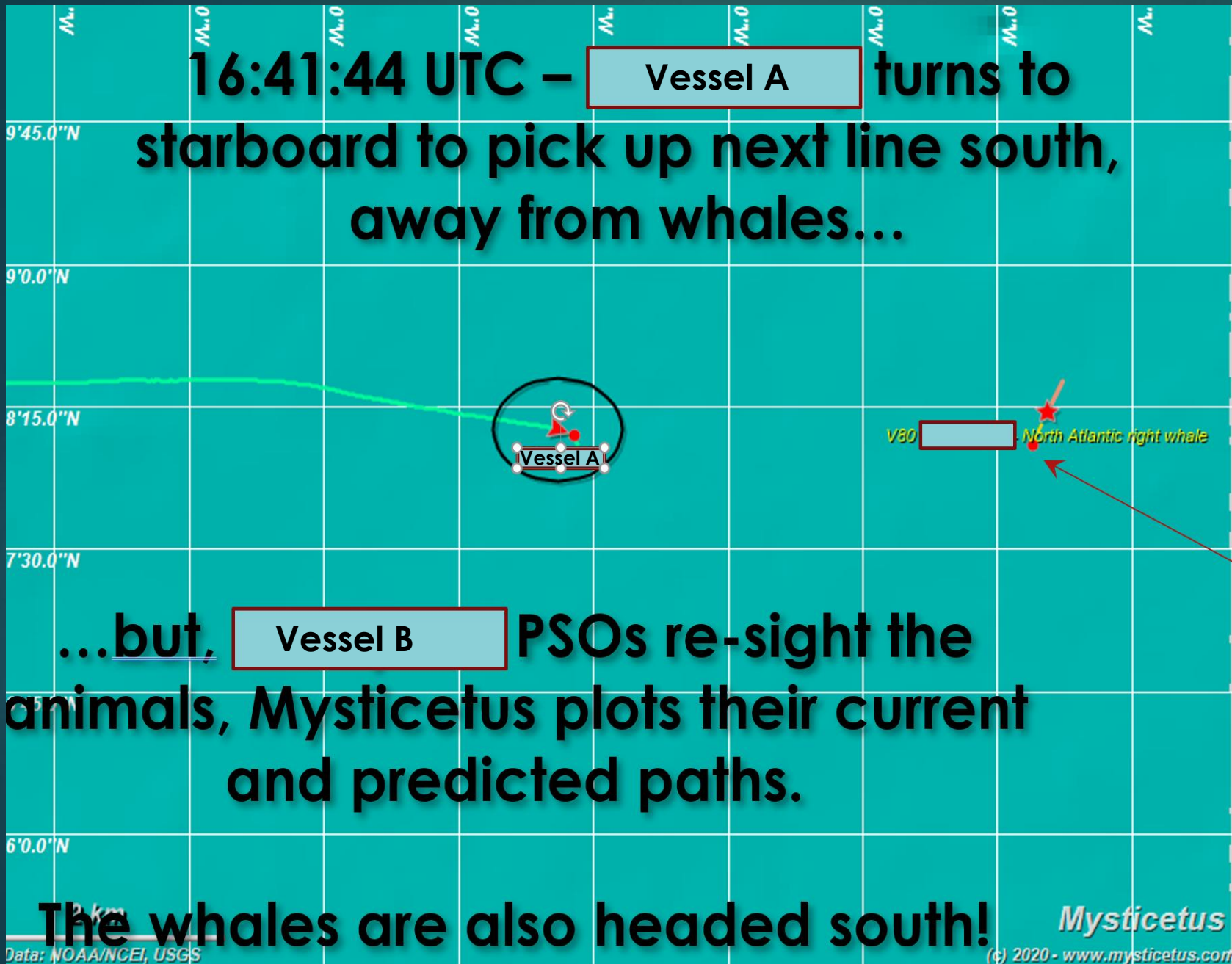...PSO heads-up map display is fairly empty...

16:17:40 UTC – [Vessel B] PSOs spot two North Atlantic Right Whales

Vessel A

V30 [ ] – North Atlantic right whale

Mysticetus automatically sends information from [Vessel B] to the [Vessel A] PSO computer display

[Vessel B] is offscreen over here

2 km

OAA/NCEI, USGS

Mysticetus

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16:41:44 UTC – [Vessel A] turns to starboard to pick up next line south, away from whales…

…but, [Vessel B] PSOs re-sight the animals, Mysticetus plots their current and predicted paths.

The whales are also headed south!

Mysticetus automatically updates [Vessel A] PSO display with latest information from [Vessel B]

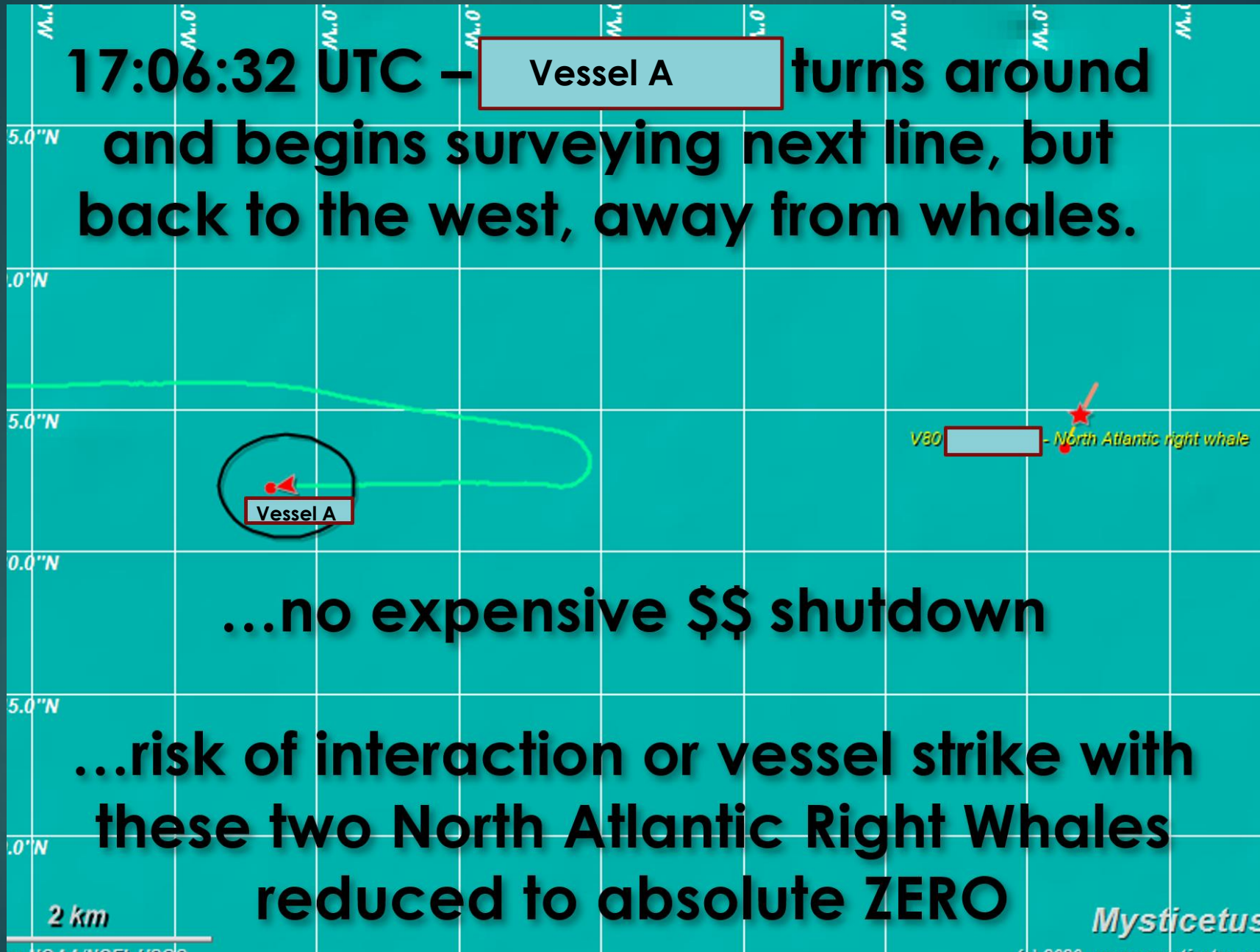V80 [   ] – North Atlantic right whale

Vessel A

Mysticetus
Data: NOAA/NCEI, USGS
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Two North Atlantic Right Whales are on a **collision course** with your giant, lumbering work boat. What do you do?

17:06:32 UTC – Vessel A turns around and begins surveying next line, but back to the west, away from whales.

…no expensive $$ shutdown

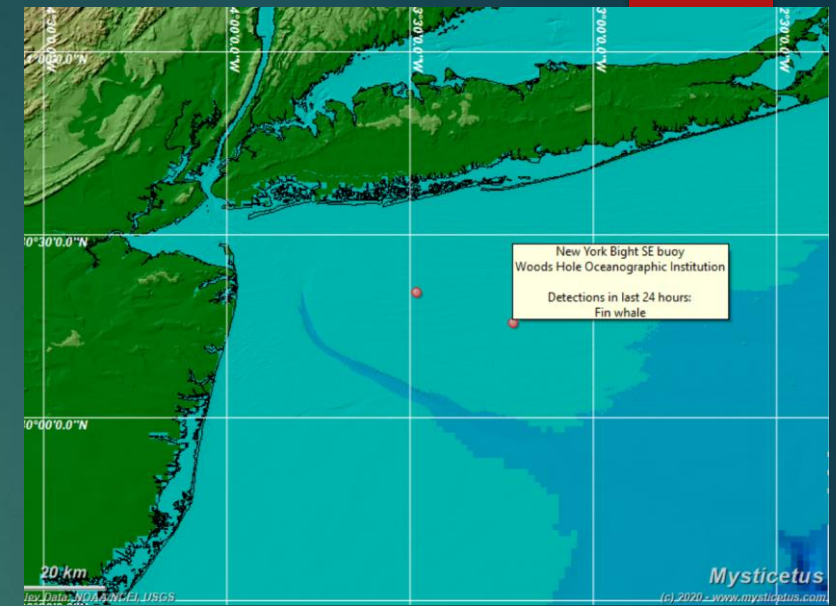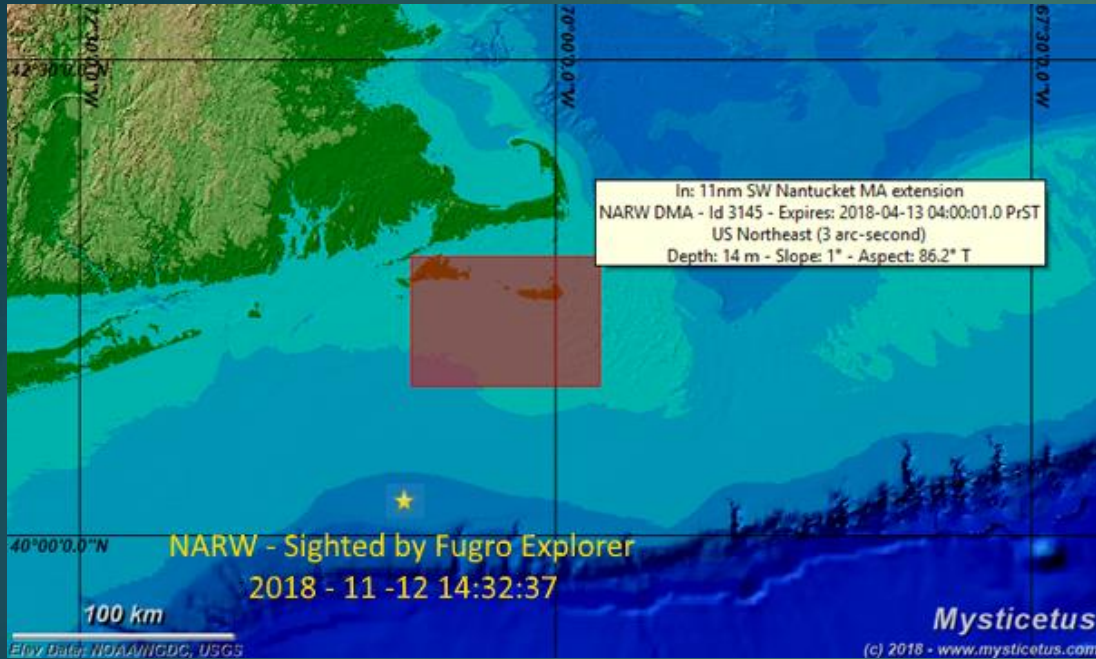…risk of interaction or vessel strike with these two North Atlantic Right Whales reduced to absolute ZERO

Mysticetus
Integration of External Data

More and more data feeds over time

- ▶ NOAA Dynamic Management Areas (DMA)
- ▶ Entangled animal tracking
- ▶ Critical sightings are emailed and texted (sms) to project management – instantly
- ▶ Research Gliders/Drones are plotted for PSOs (collision avoidance)
- ▶ AIS Targets
- ▶ 2021: Fishing Gear
- ▶ 2021: Sea Turtle Network
- ▶ 2021: Weather and weather trends

Summary: Instant, Commercial Data Sharing

- **Conservation Benefits:**
  - Vessel strike risk reduction (**multiplies eyes on water**)
  - Increase in quantity and quality of data for future study

- **Commercial Benefits ($$$):**
  - Prevent certain categories of **expensive** shutdowns
  - Critical event notification (incl Harassment) to onshore person via email and sms texts

- **Multi-level Commercial Data Security**
  - **Developer controls** who shares what, when, and with whom

Thanks!

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