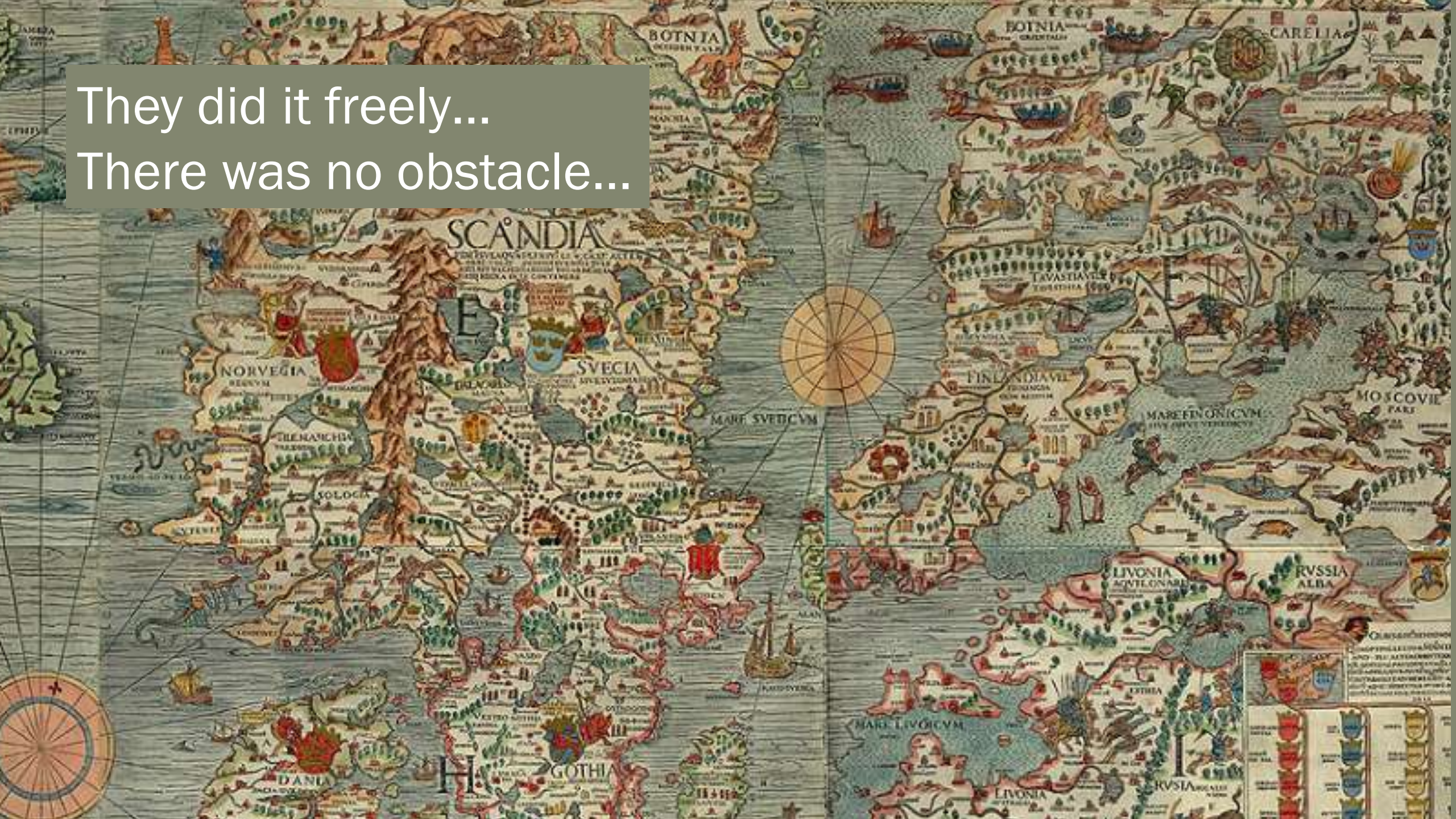
Many centuries ago people started to sail the Baltic Sea...




They did it freely...
There was no obstacle...
BOTNIA
BOTNIA
CARELIA
SCANDIA
NORVEGIA
SVECIA
MARE SVEDICVM
FINLANDIA
MOSCOVIE
LIVONIA
RVSSIA ALBA
DANIA
GOTHIA
MARE LIVONICVM
LIVONIA
RVSSIA

Ships have freedom of navigation even today…

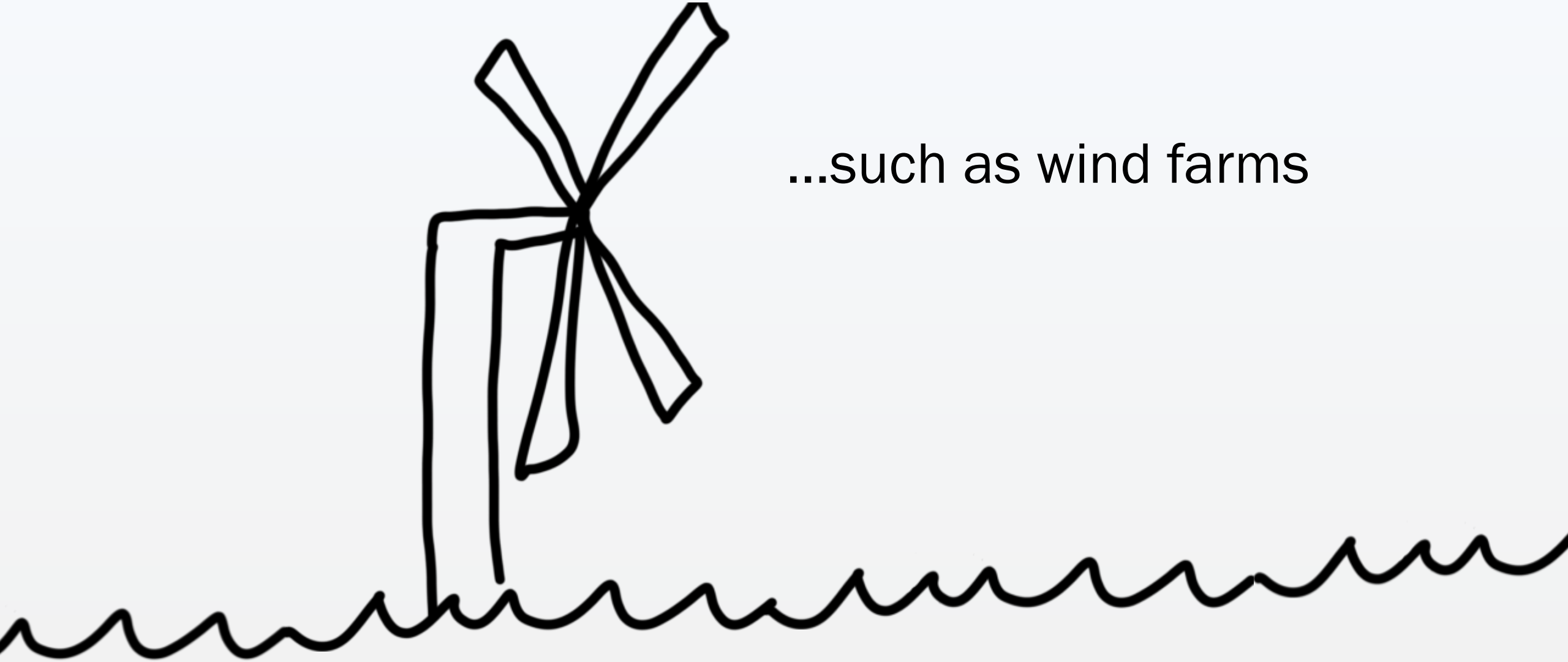


Buonasera

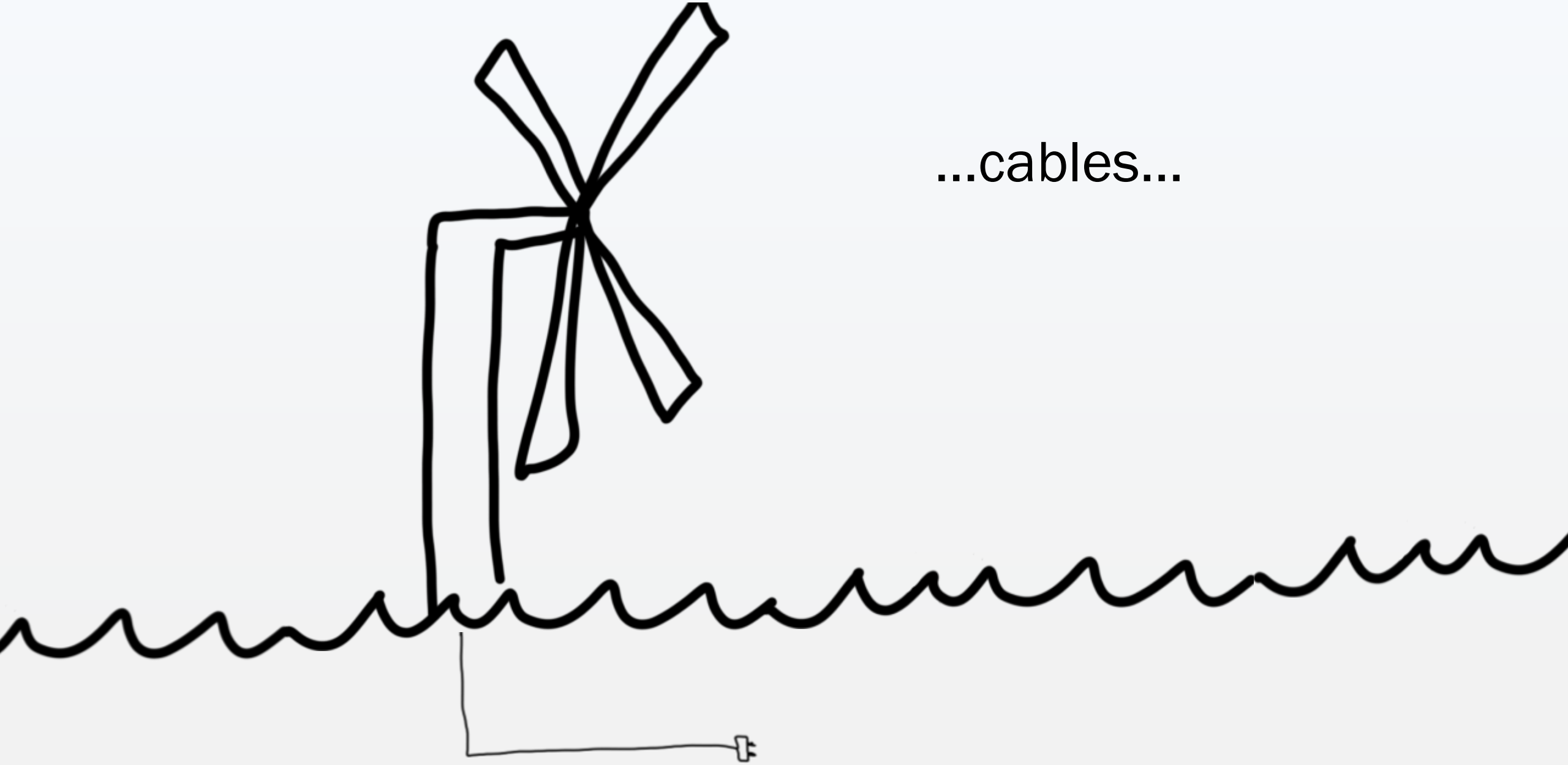
But something has happened recently…

Ships are under pressure
by other activities...

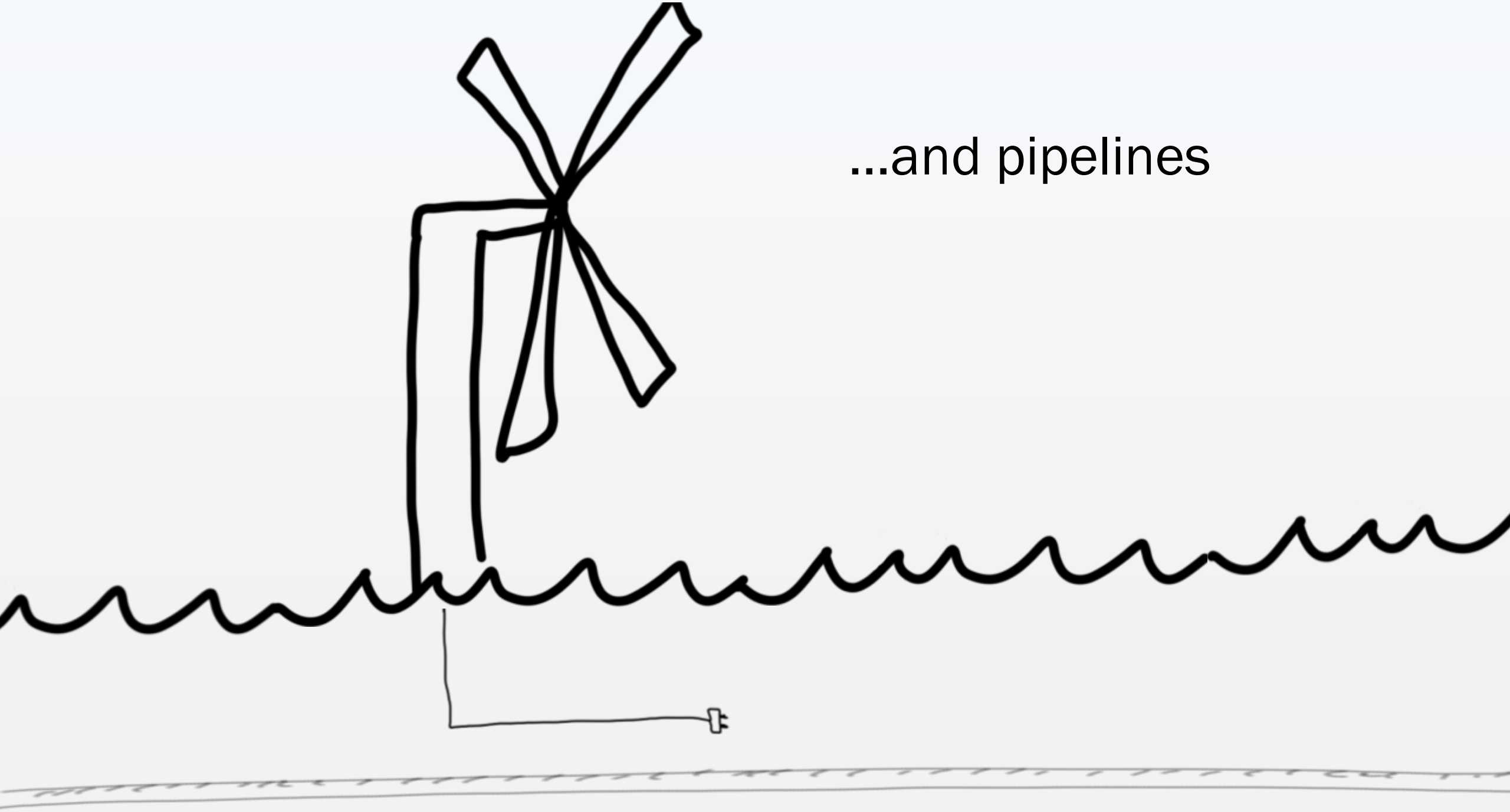




...such as wind farms



...cables...



...and pipelines

Today, there are already many wind farms projects...

And there will be more.



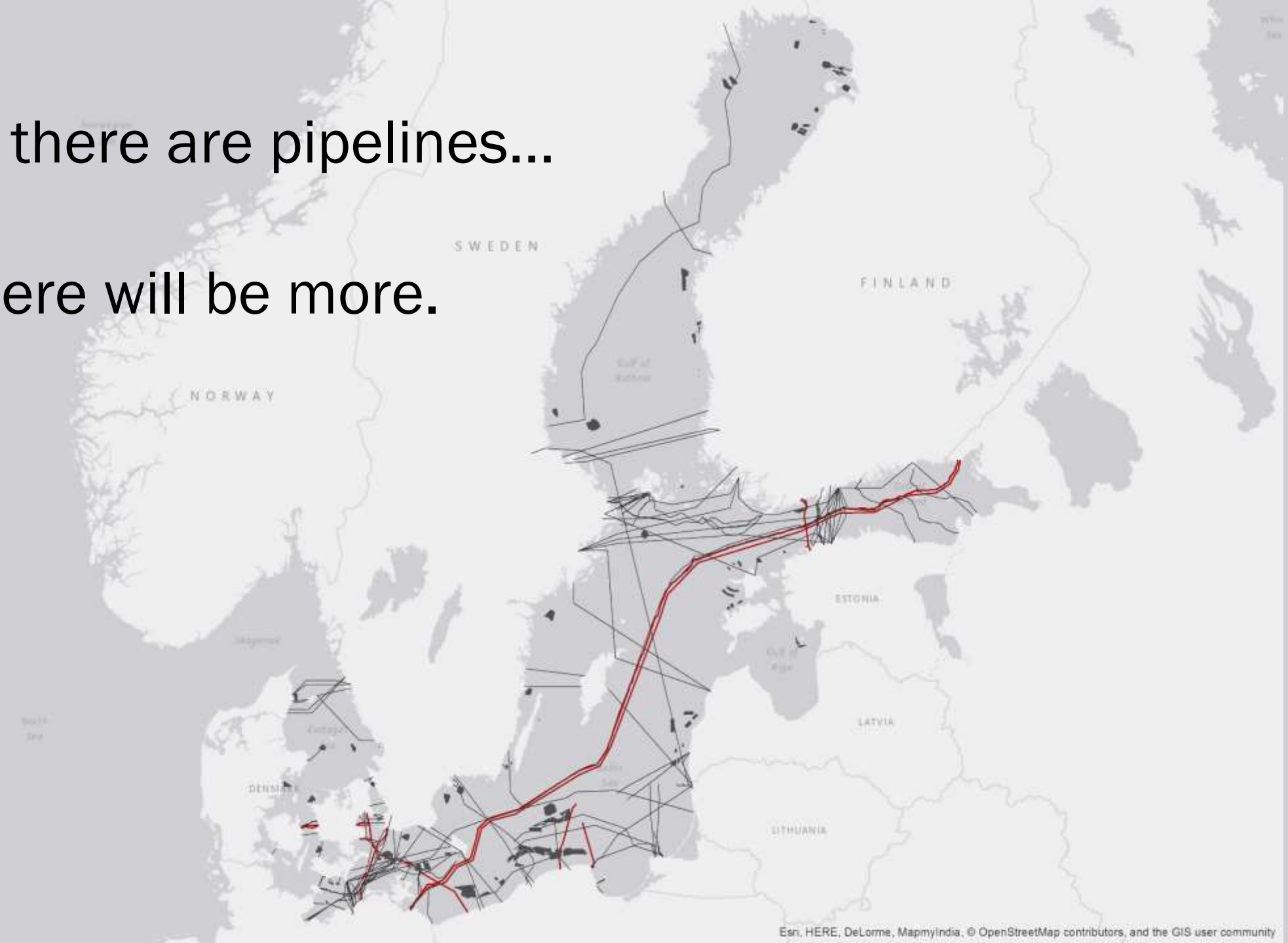
Today, there are already many cables...

And there will be more.



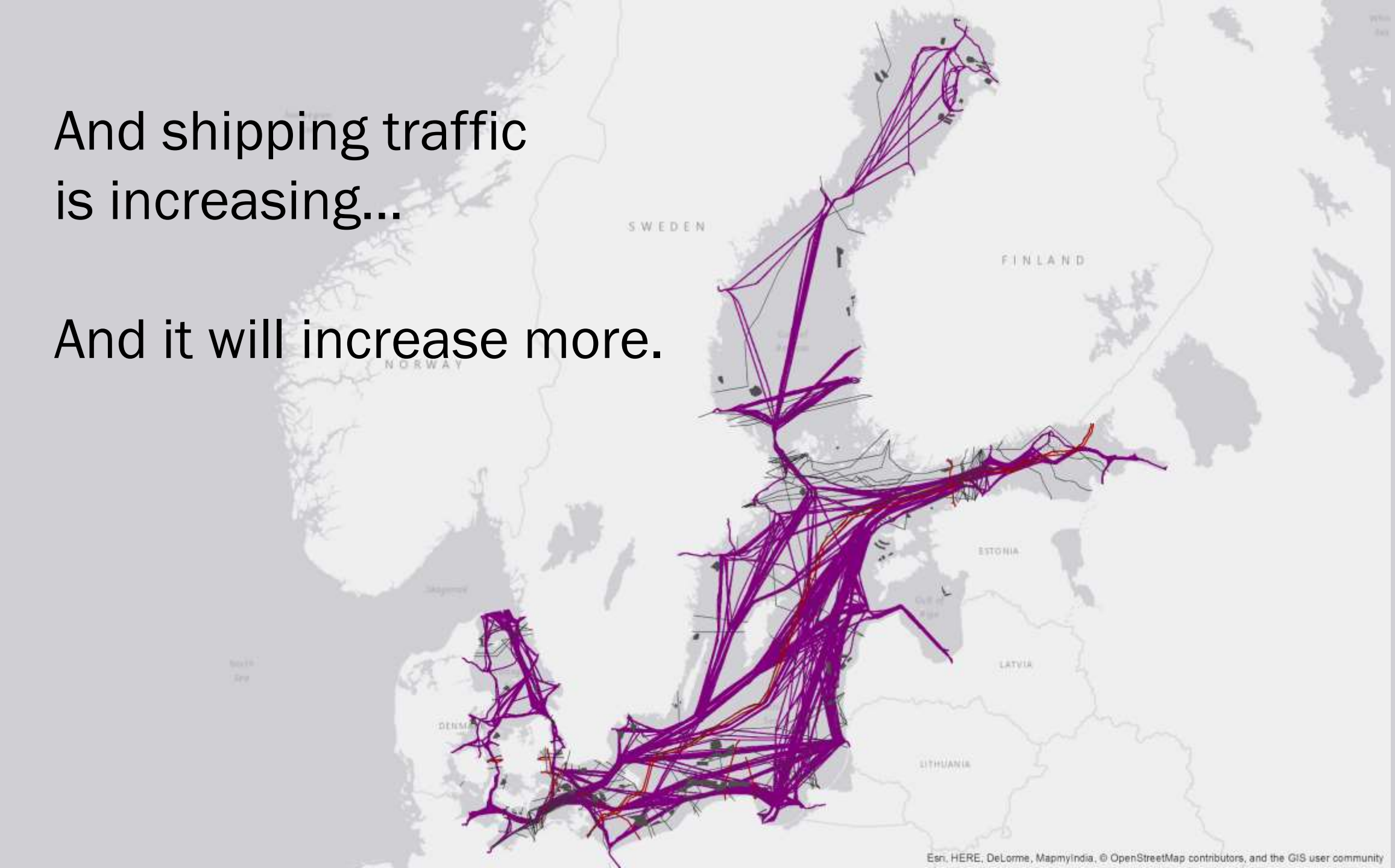
Today, there are pipelines…

And there will be more.



And shipping traffic
is increasing…

And it will increase more.



Therefore, we have to plan
linear infrastructures, fixed instalations
and shipping lanes that are **coherent** across borders.

Which is what this project is trying to achieve.

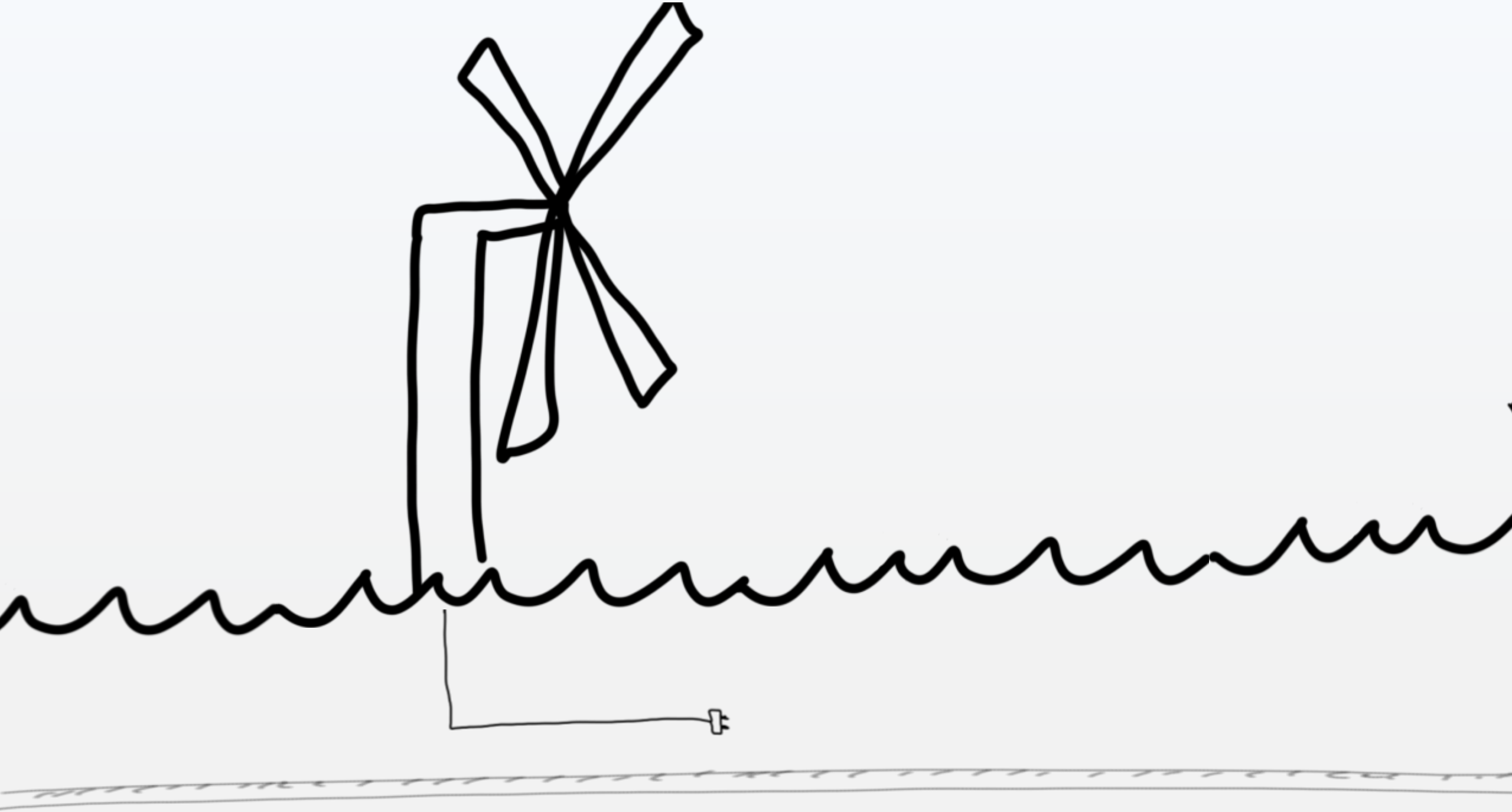


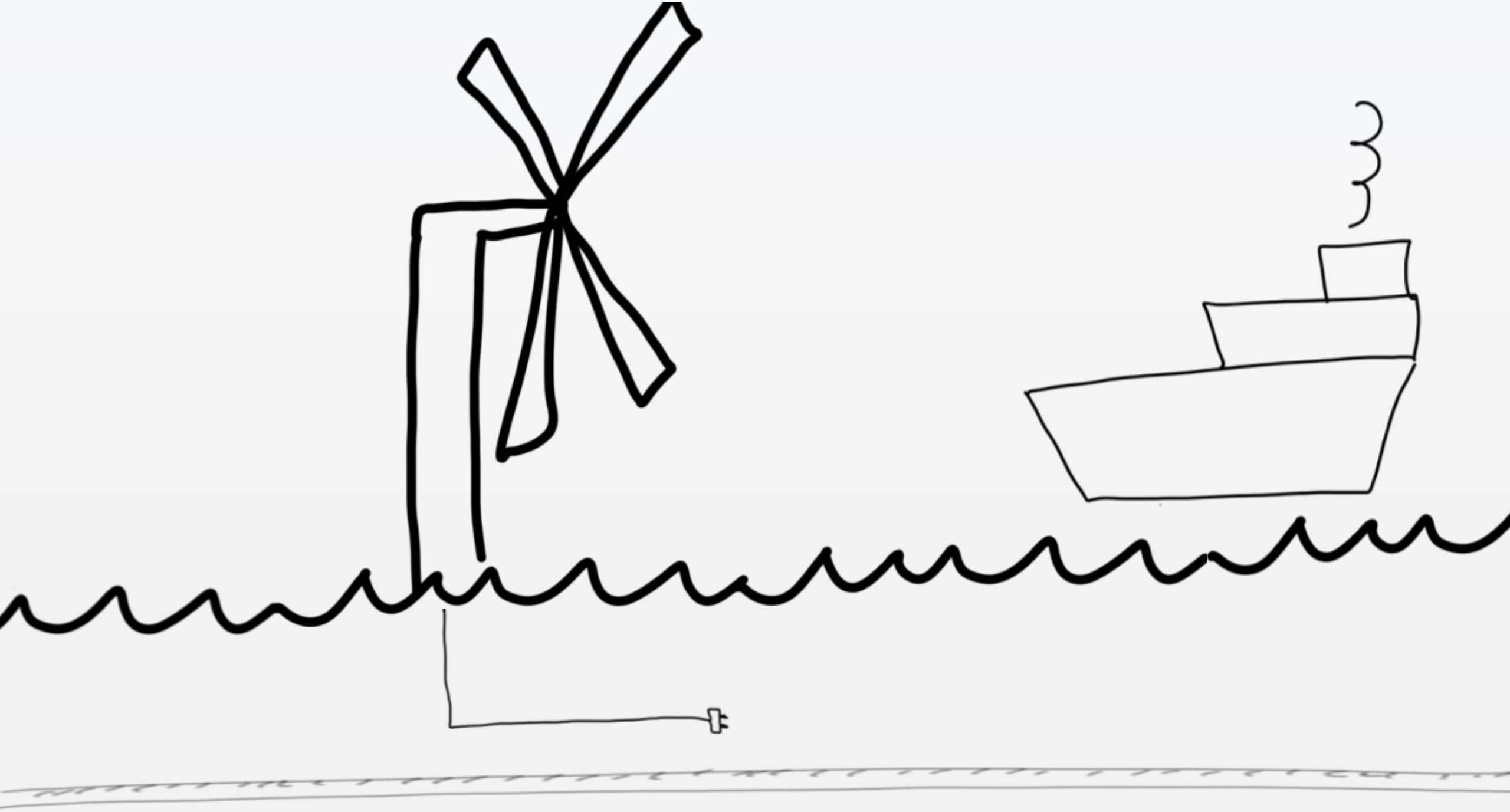
Baltic LINes

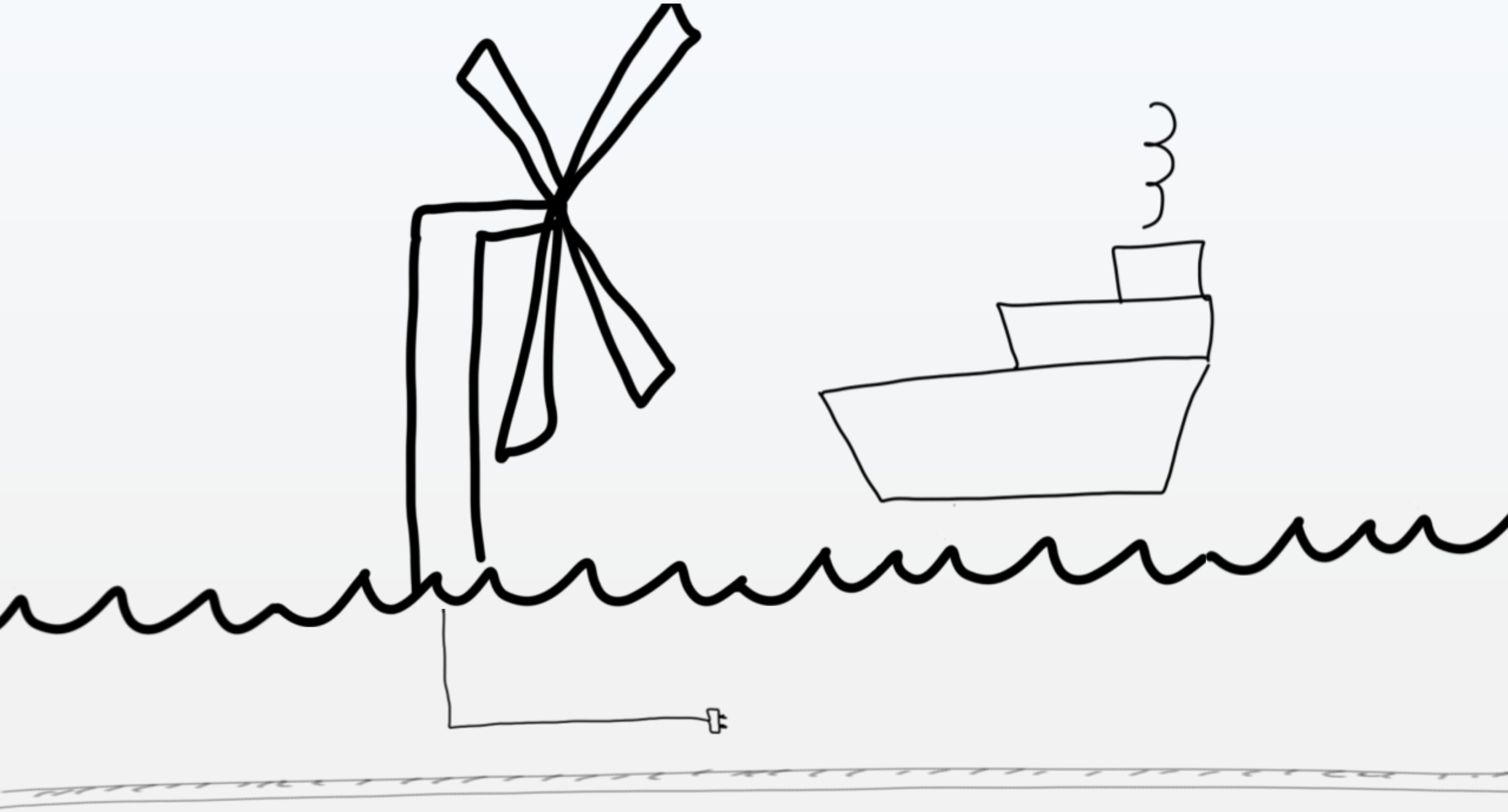
Coherent Linear Infrastructures
in Baltic Maritime Spatial Plans

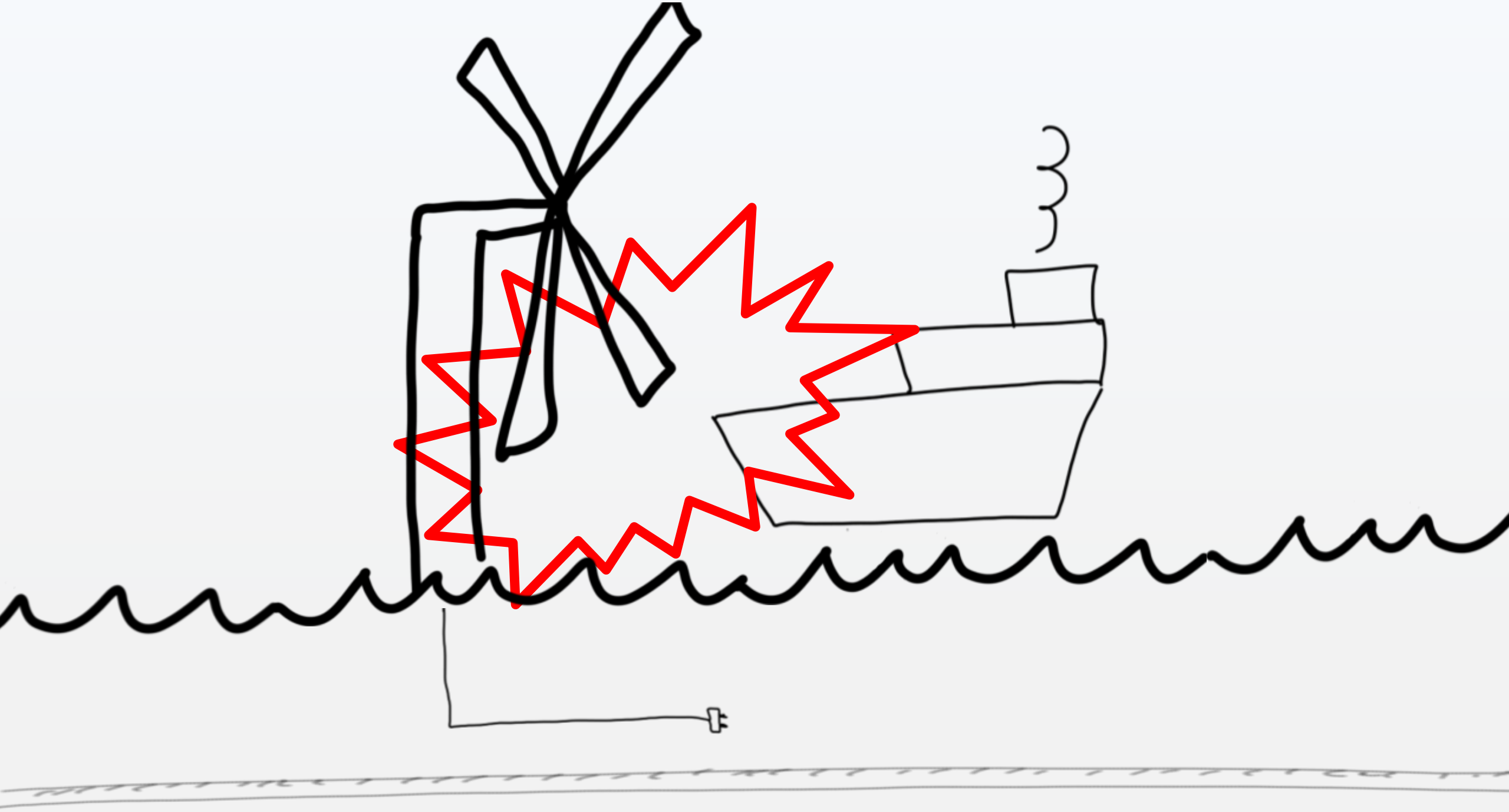
Interreg
Baltic Sea Region

But **WHY** do we need to plan
coherent linear infrastructures,
fixed instalations and shipping lanes?

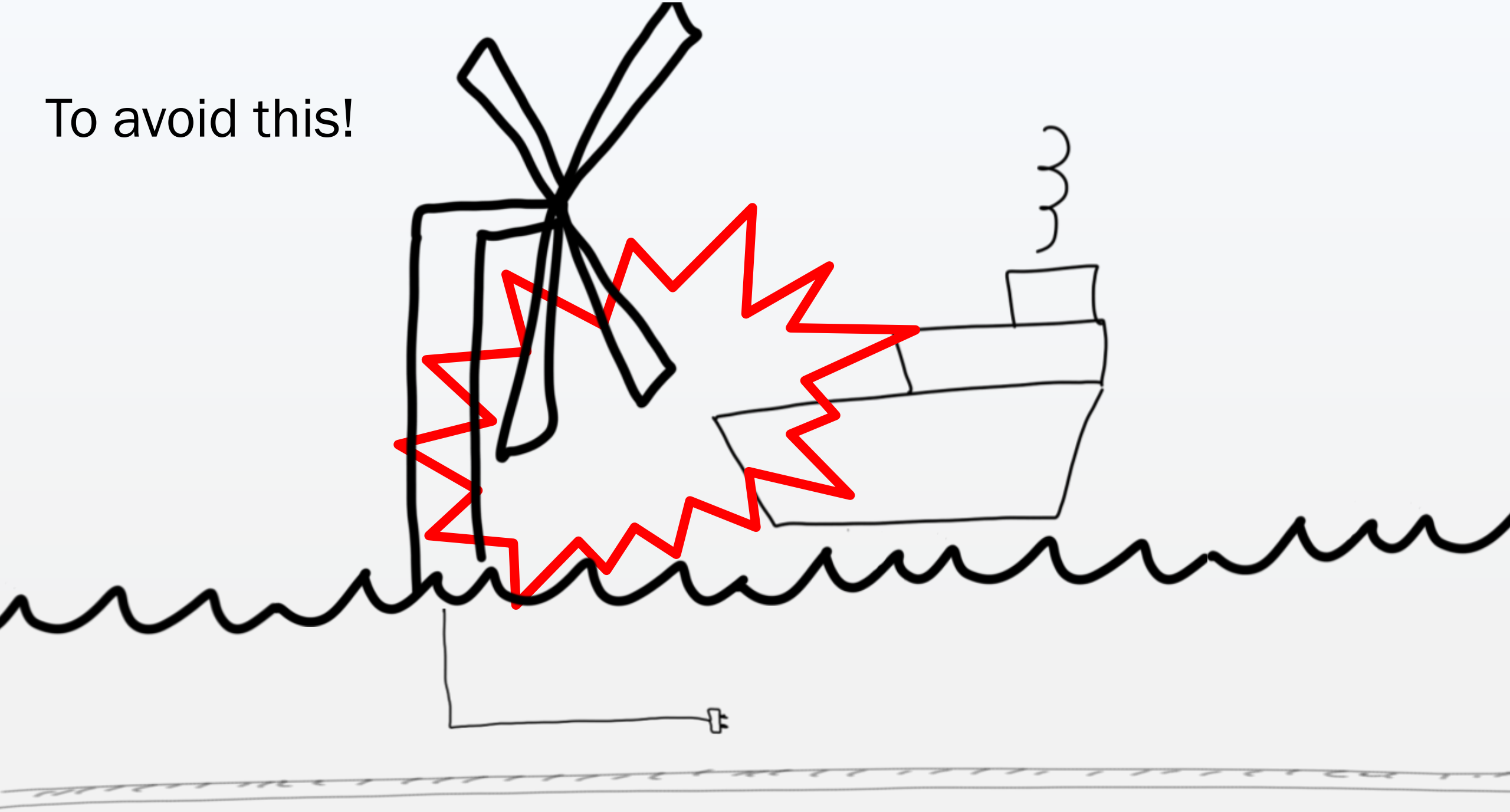








To avoid this!



Let’s now move until the end of the project…

2016

2017

2018

2019

Welcome to 2019!

Baltic LINes has created planning solutions for linear infrastructures coherent across borders.



Welcome to 2019!

The planning solutions will be implemented in all countries



Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user com

Welcome to 2019!

Right in time to comply with the

Maritime Spatial Planning Directive by 2021



Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user com

What’s the role of HELCOM in this project?

Meet Kai the planner



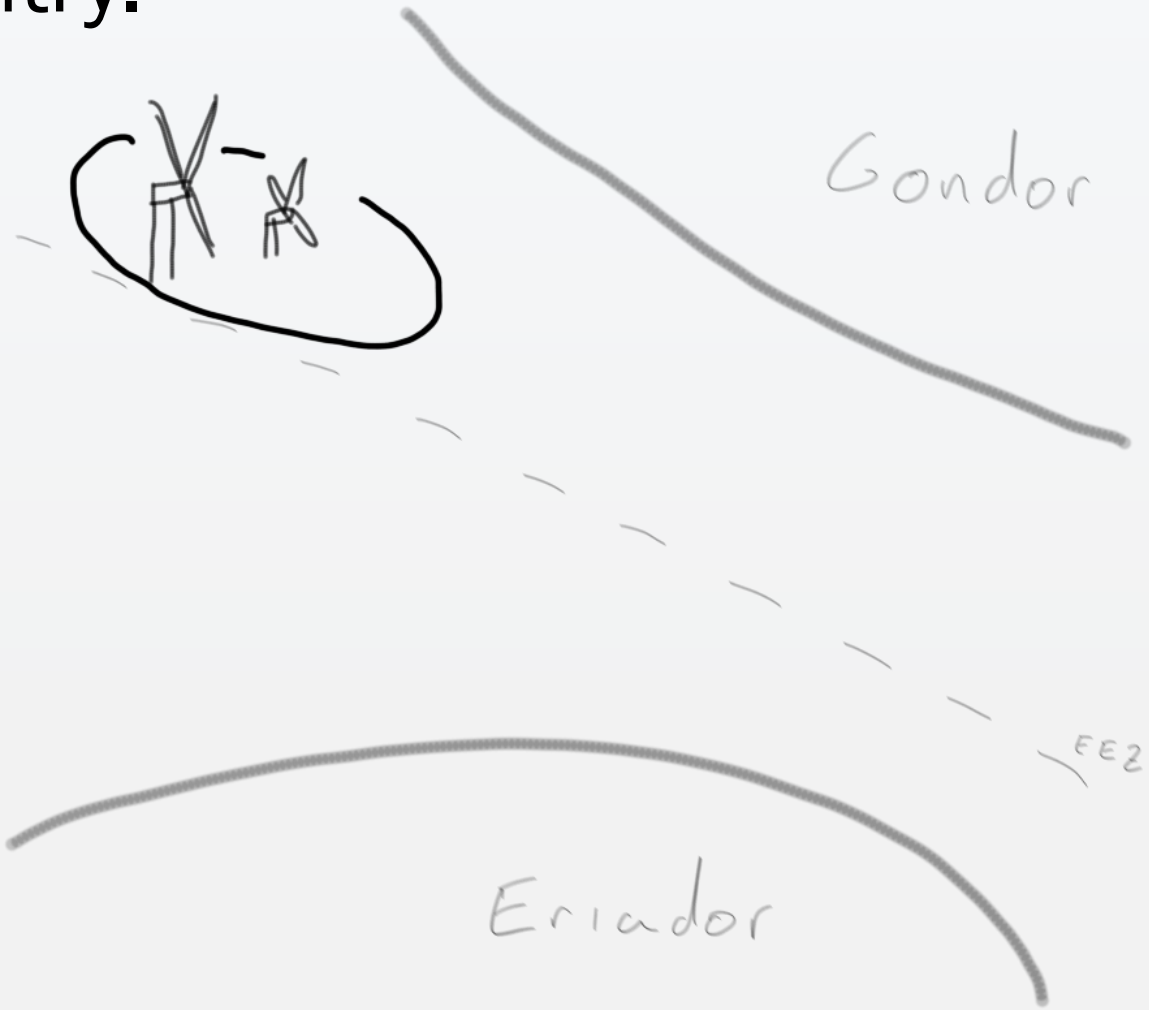
Kai is a MSP planner



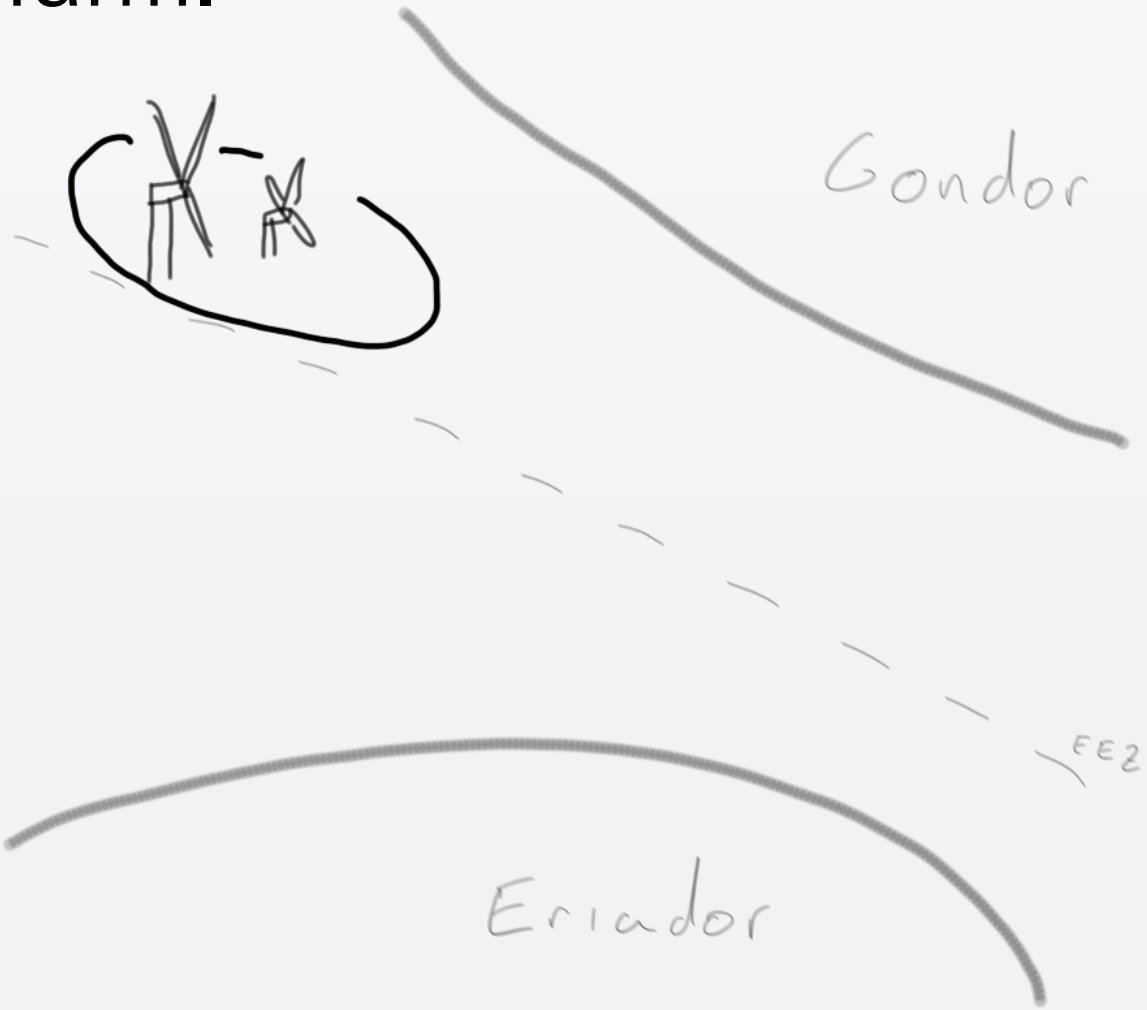
Kai is planning a wind farm



It’s very close to the border
of his neighbouring country.



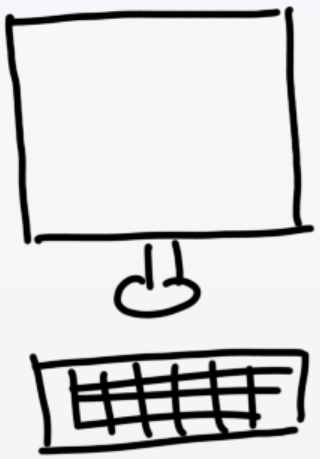
He needs to know if the neighbouring country, Eriador, has plans that can affect the construction of his wind farm.



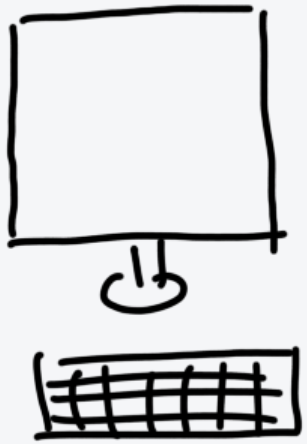
He can choose between two systems to view the neighbouring country data.



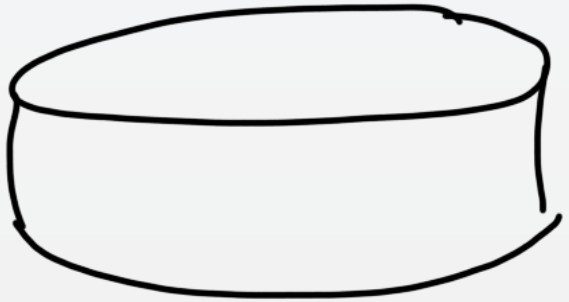
Centralized



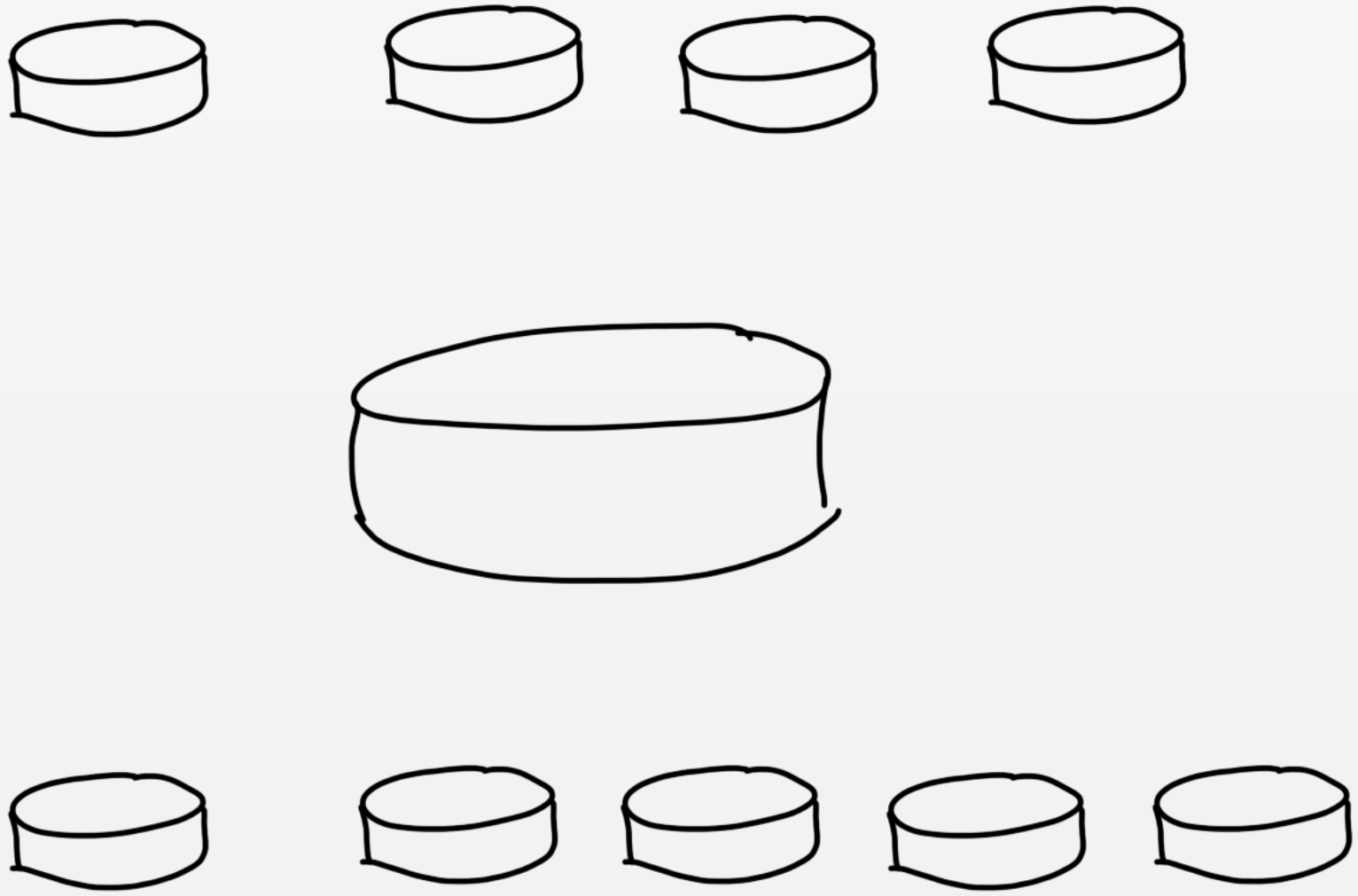
Decentralized



Centralized system

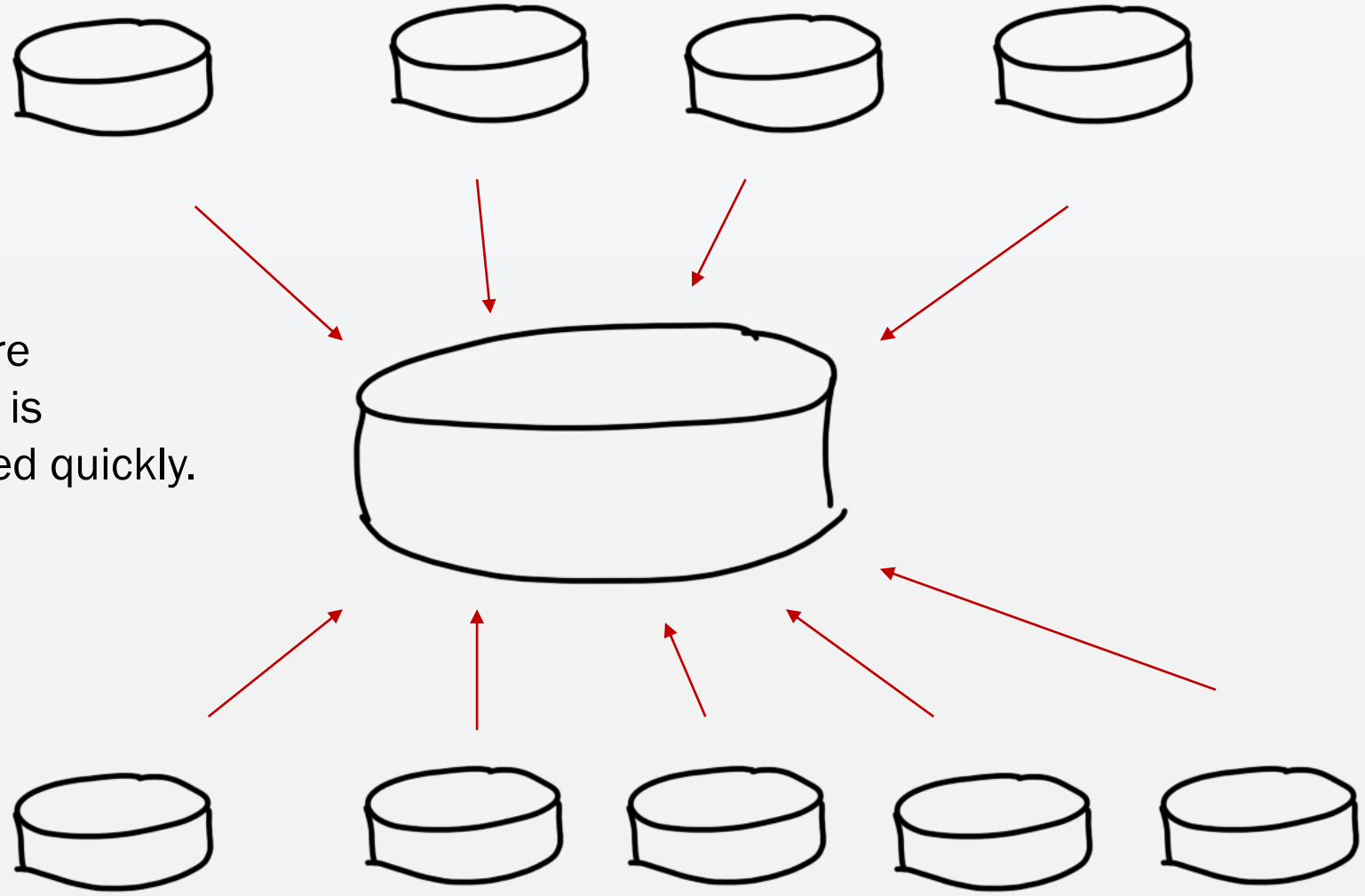


Centralized system

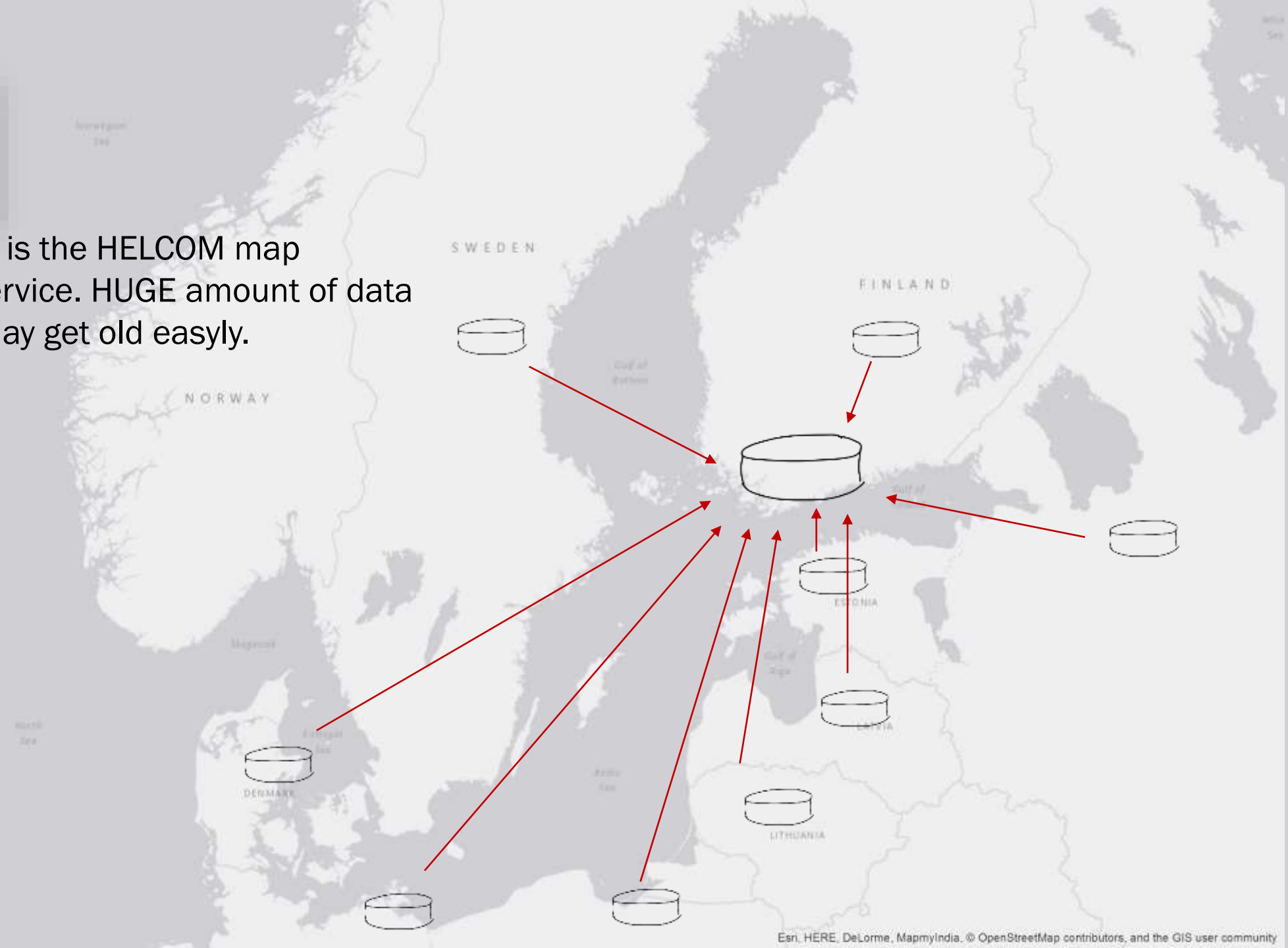


Centralized system

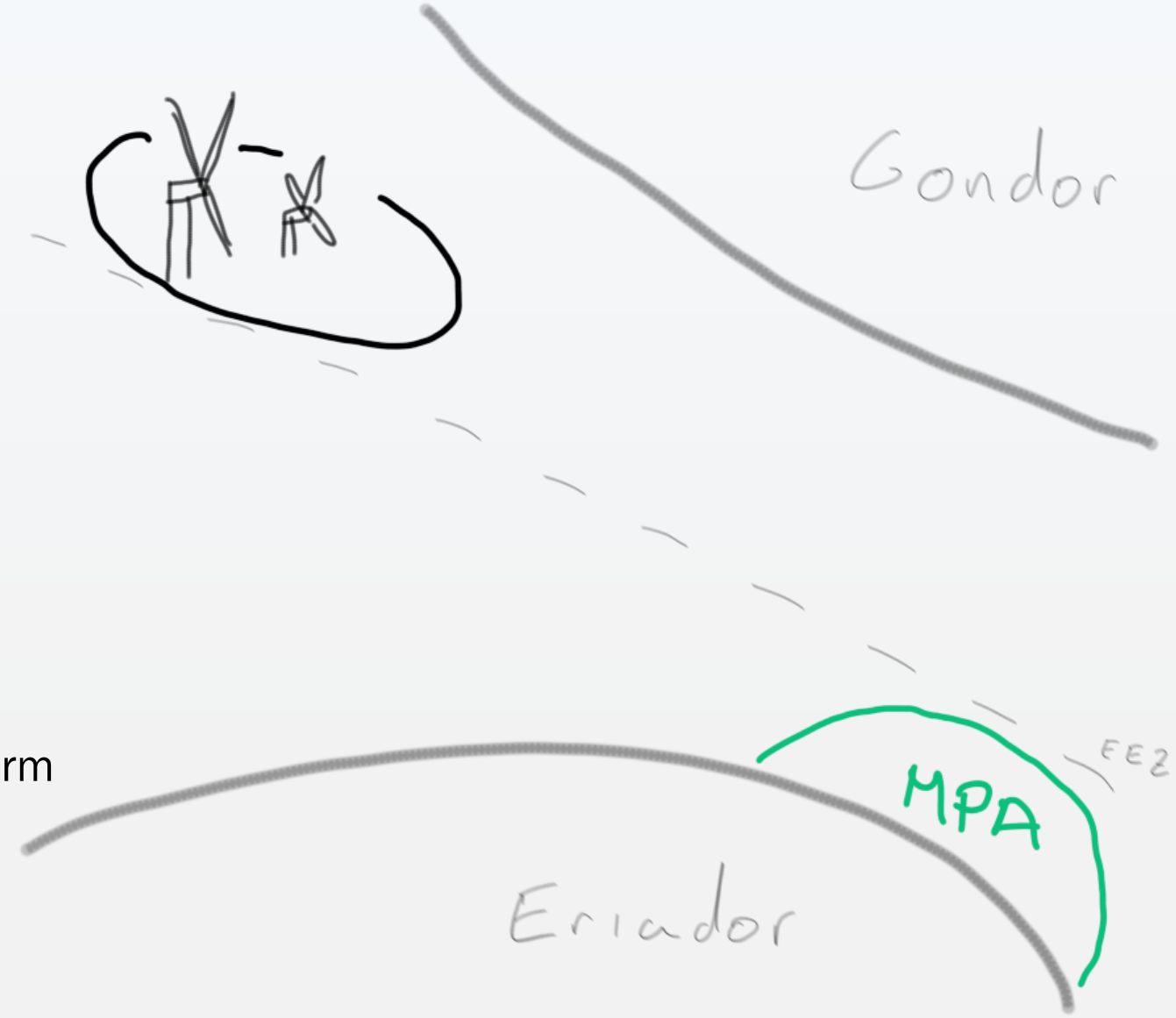
Data from all countries are stored here. The problem is that data may get outdated quickly.



An example is the HELCOM map and data service. HUGE amount of data but some may get old easyly.



When he uses a centralized system he sees this



He’s happy because there are not apparent conflicts with his wind farm

Decentralized system

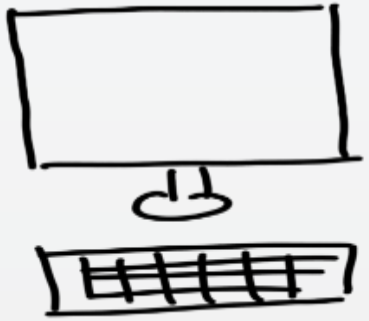
Before he makes a decision he has a look at the decentralized system



Decentralized system



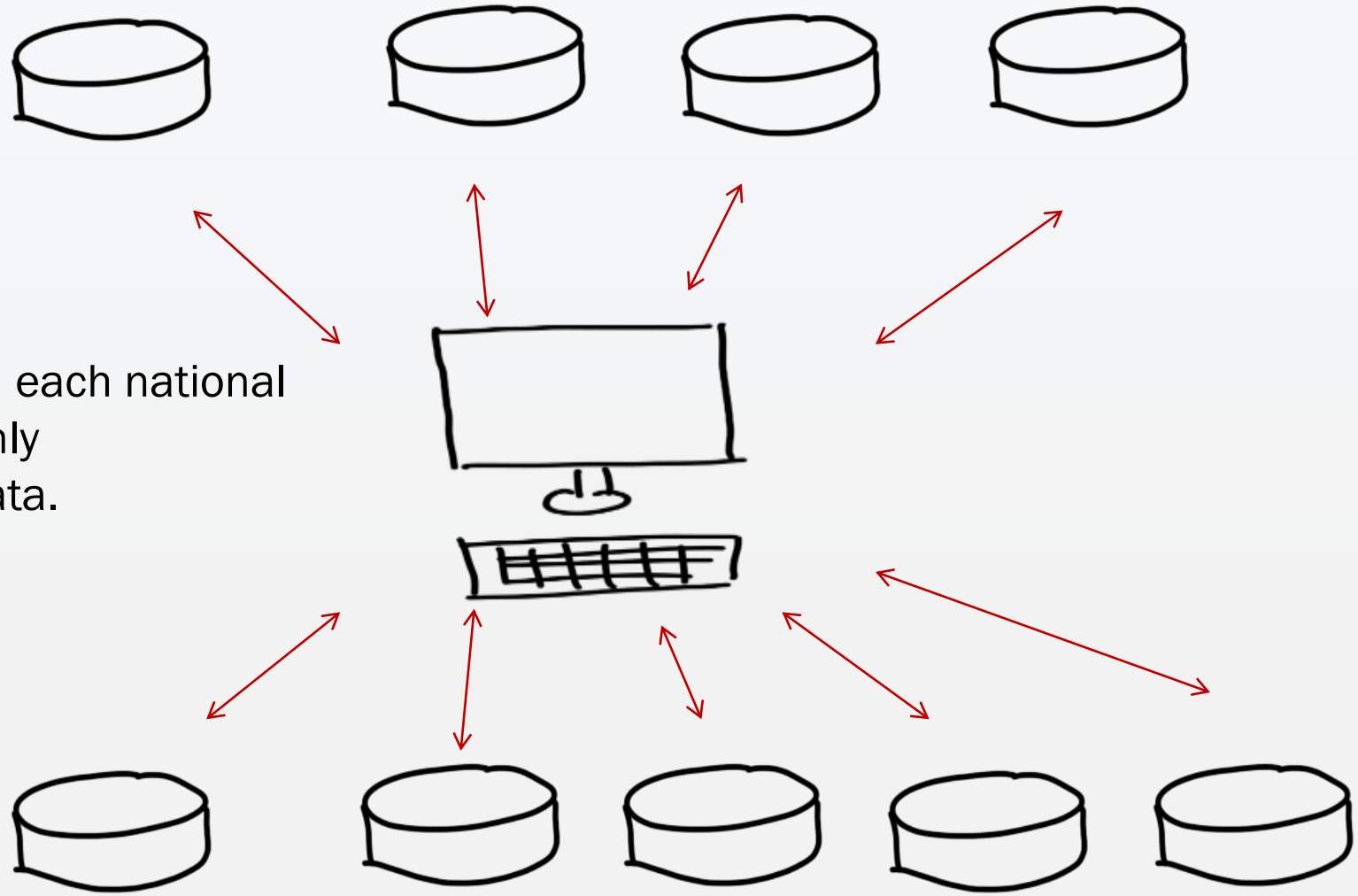
It is a system connected directly to databases





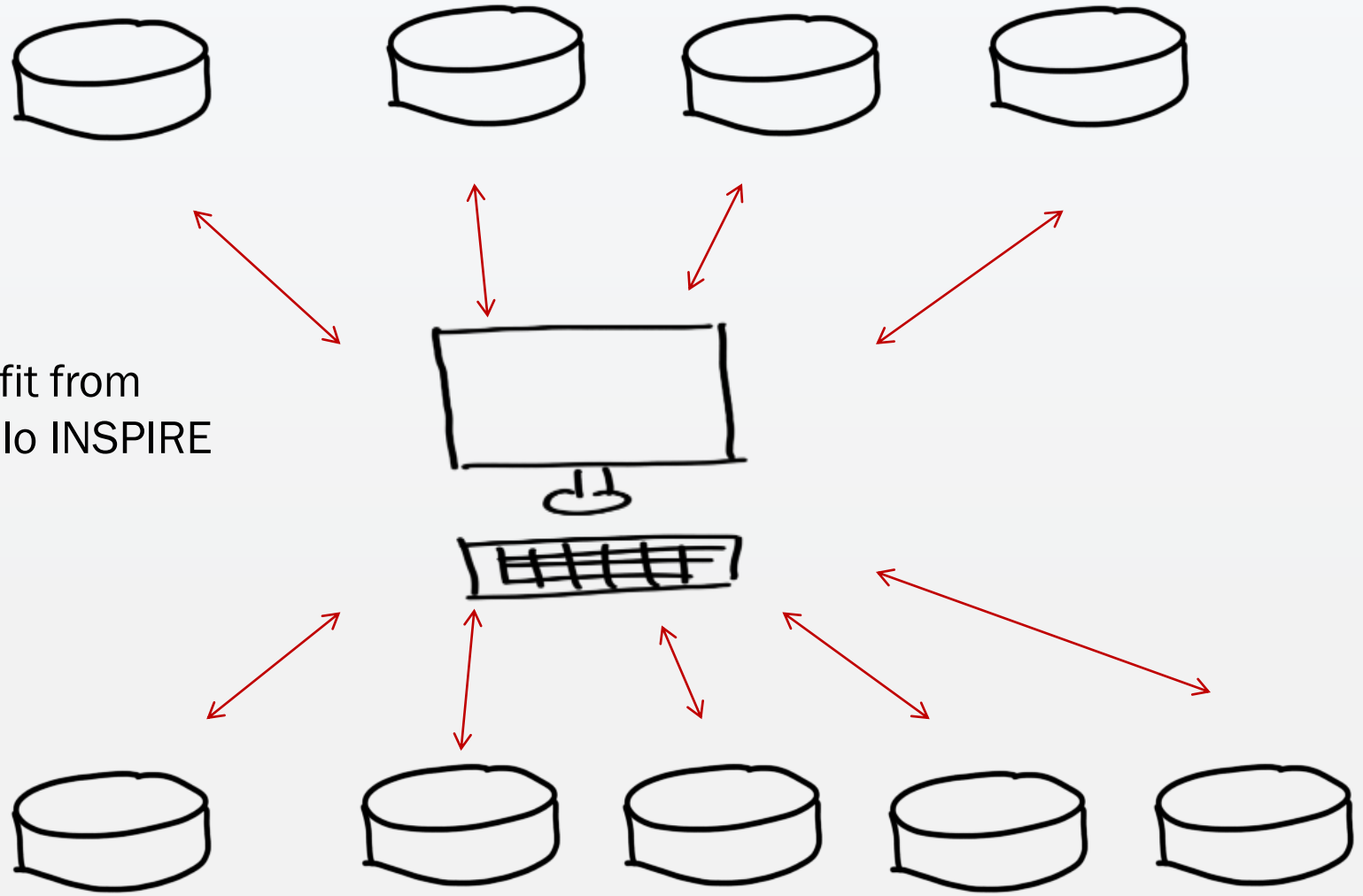
Decentralized system

Data is maintained in each national server. The system only needs a link to the data.

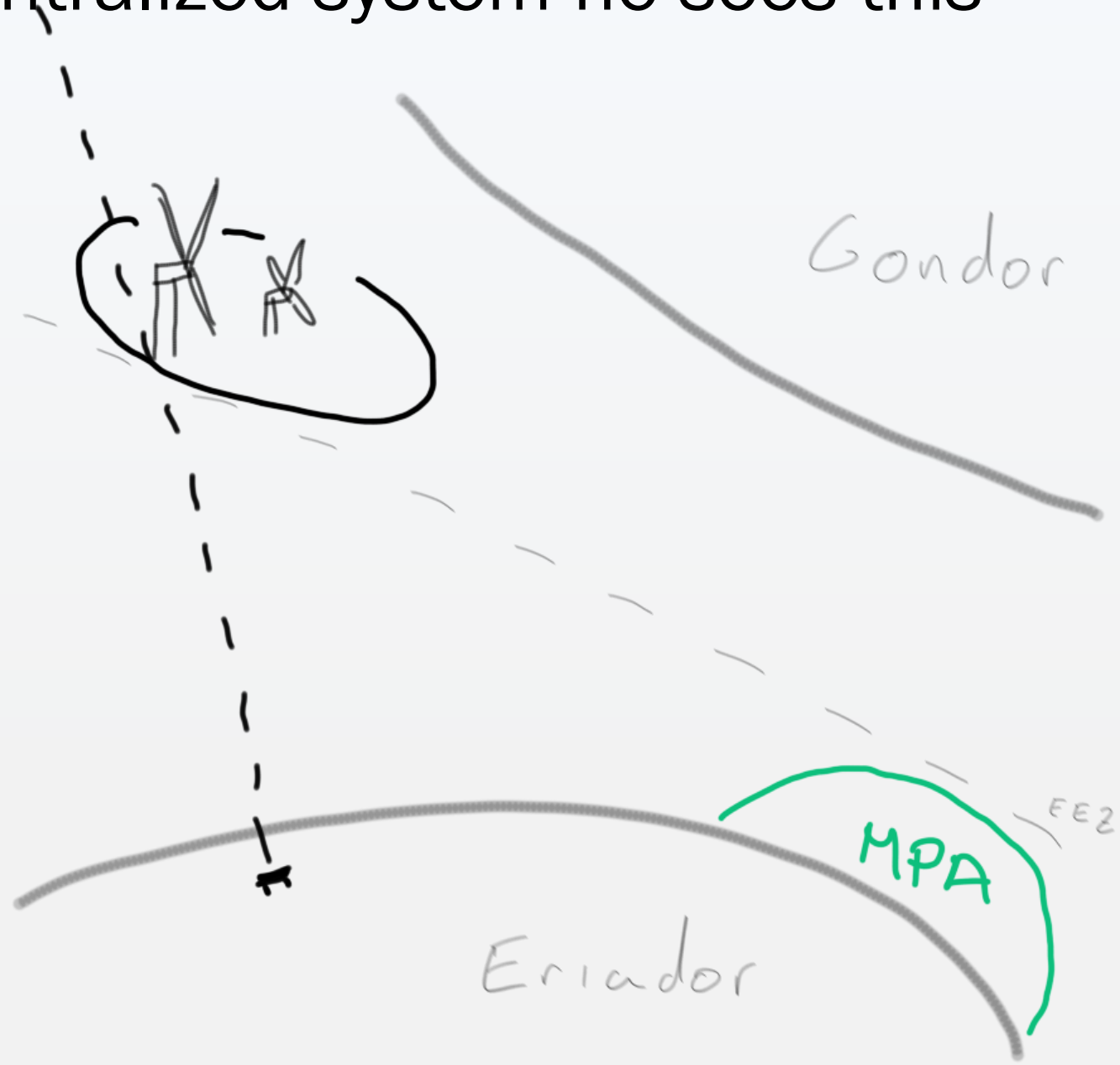


Decentralized system

The system can benefit from existing standars (hello INSPIRE Directive!)



When he uses a decentralized system he sees this



Eriador is planning a new cable which is crossing his wind farm.

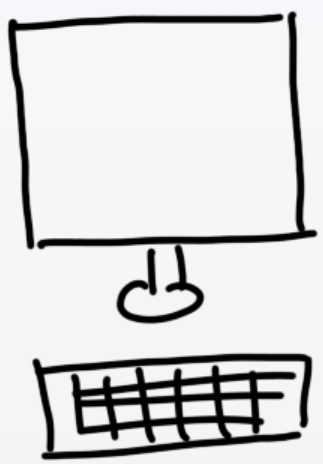
They didn't have time to send the data to the centralized system.

Now Kai needs to talk to Eriador to see how they can solve this problem.

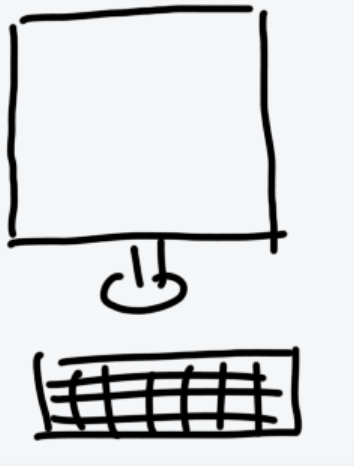
Which one?



Centralized

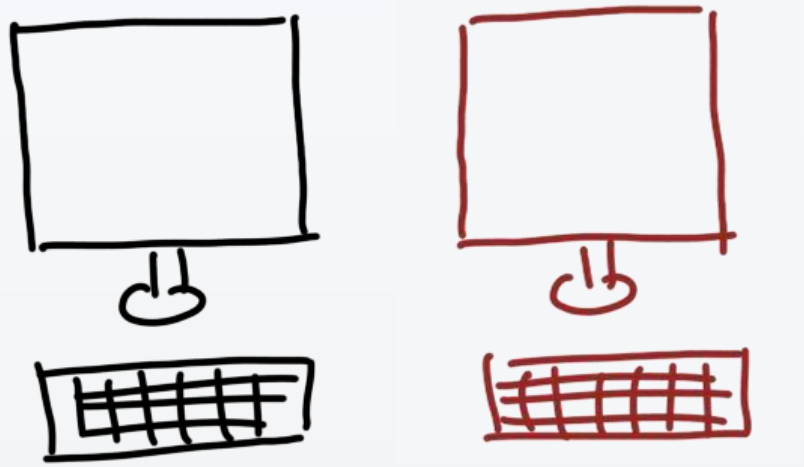


Decentralized



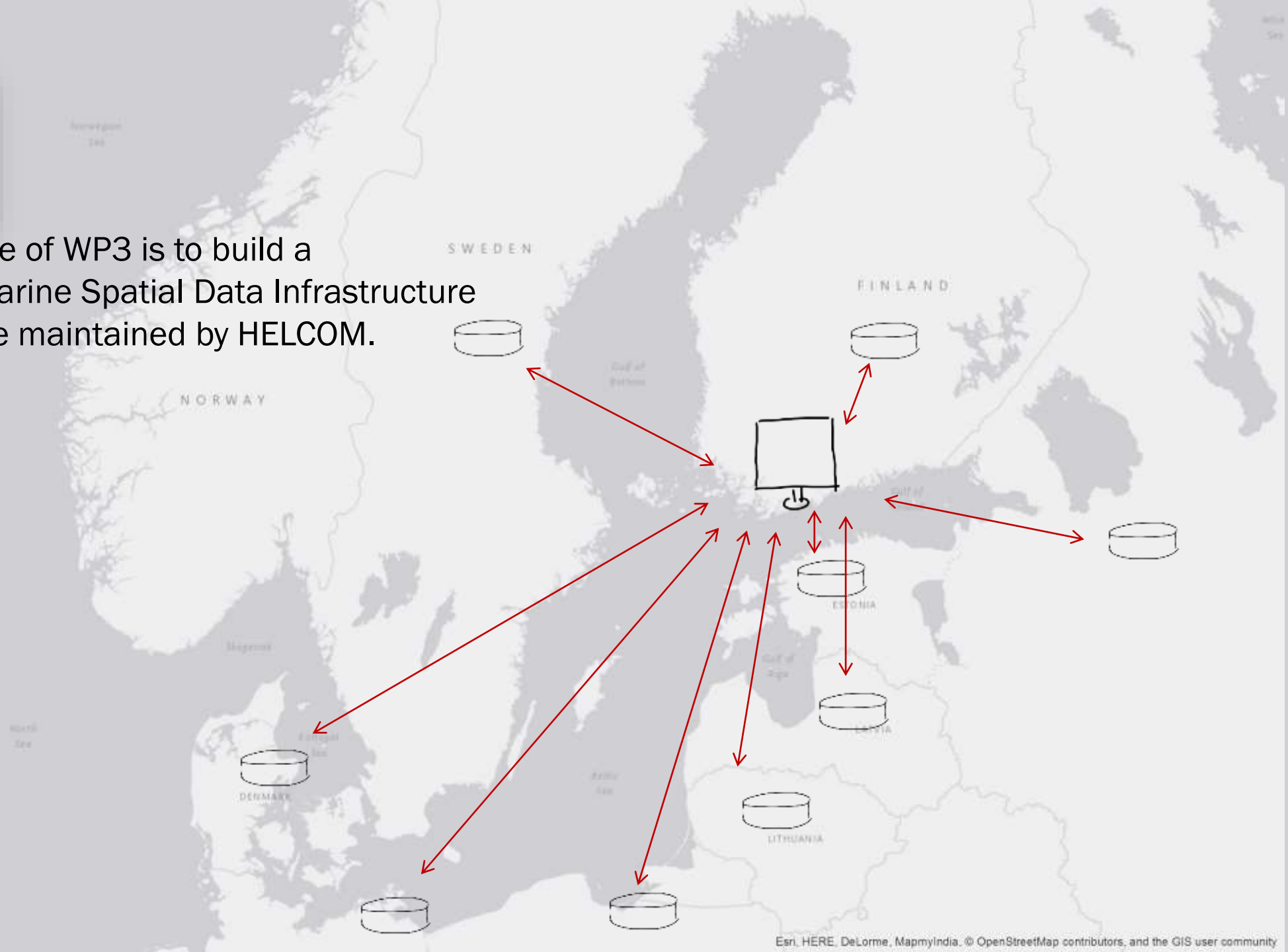
Which one?

Centralized Decentralized





The objective of WP3 is to build a prototype Marine Spatial Data Infrastructure which will be maintained by HELCOM.



A vision is like a dream—

it will dissapear unless we do something with it. ...stop wondering and go on an adventure.

Simon Sinek, Together is better



HELCOM, the leader of WP3, and Aalborg University are facing some challenges



Challenge 1

Where is the **data**?



Challenge 2

What **format**?

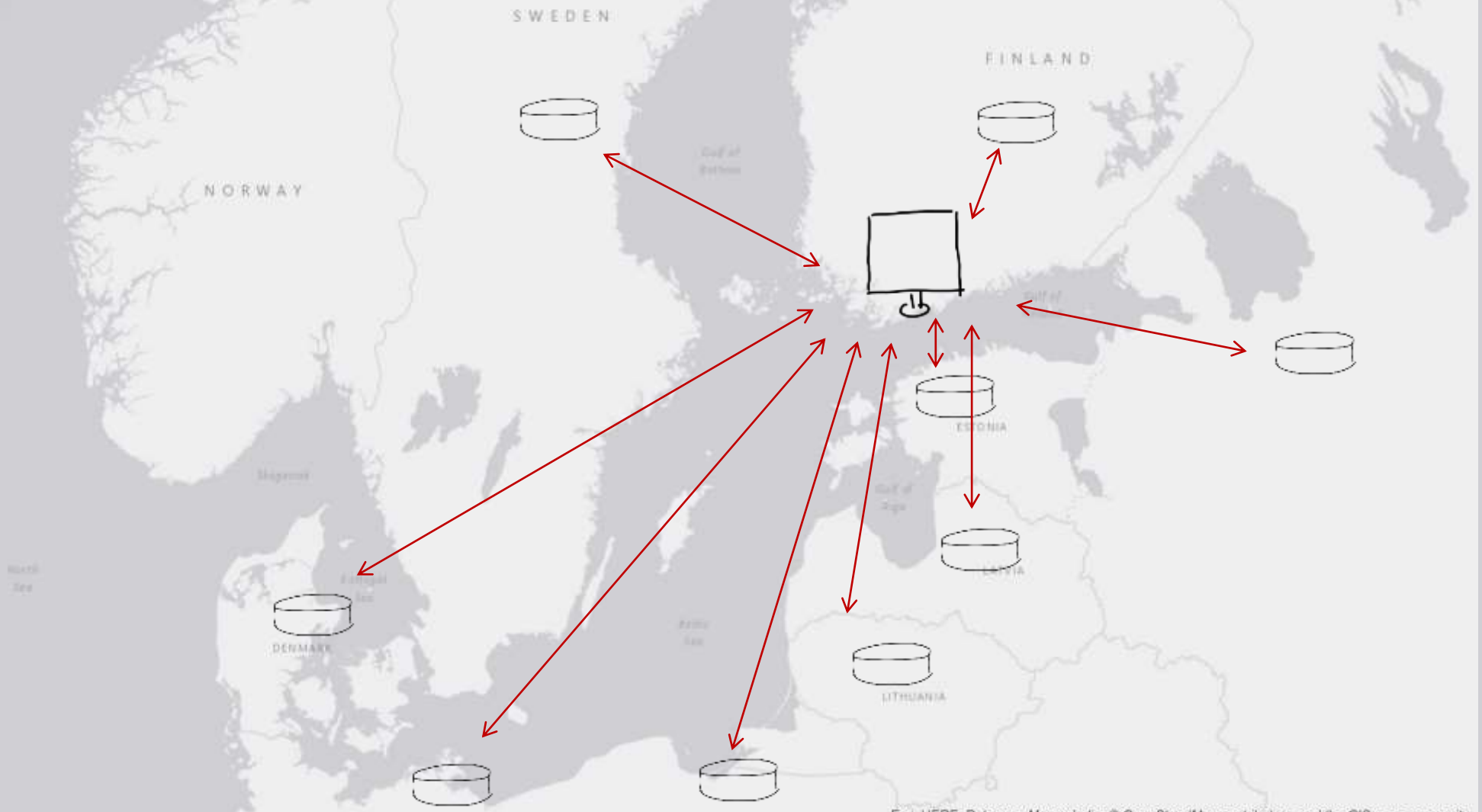


Challenge 3

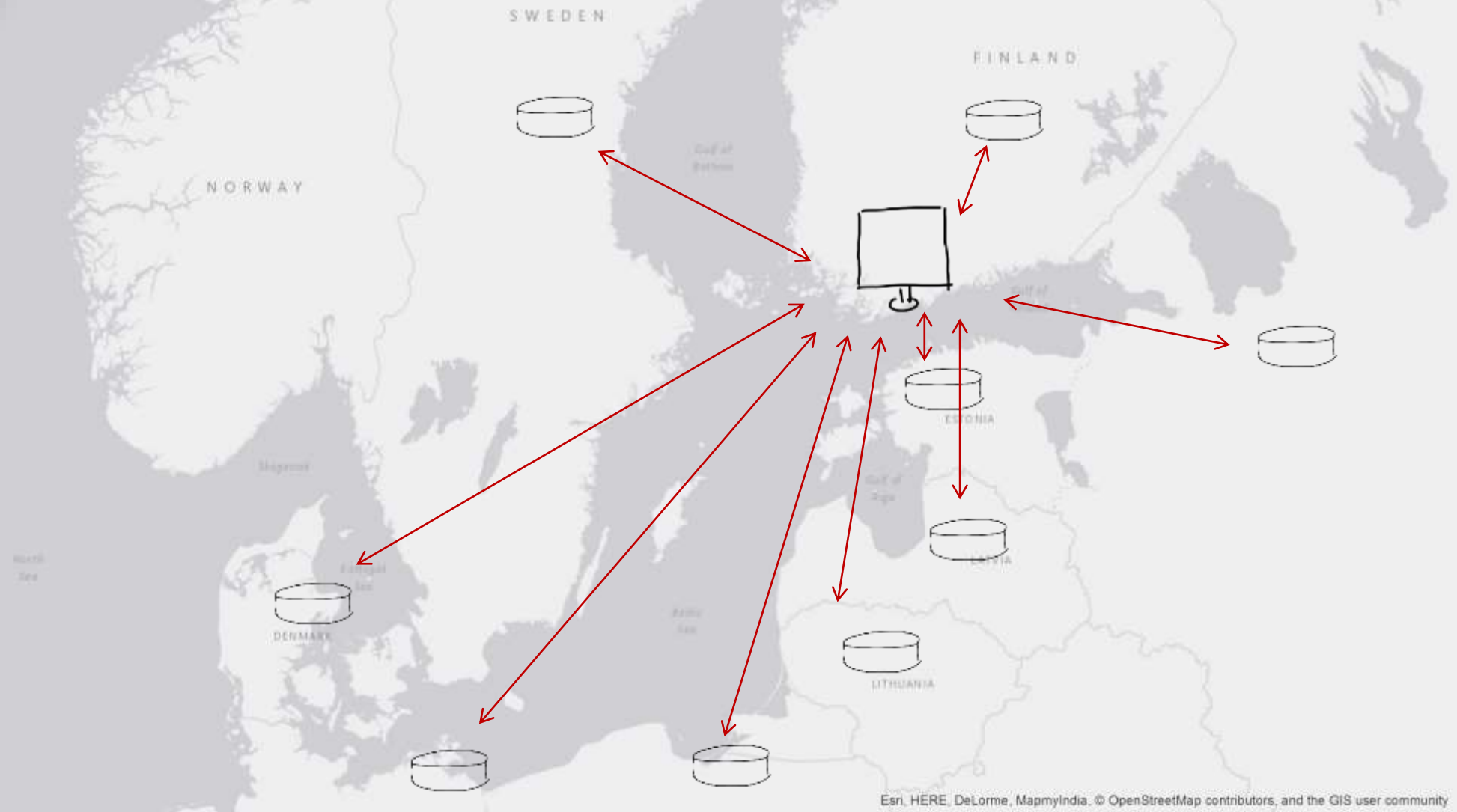
How do we **harmonize**?



Together we can build the first prototype of a Baltic Marine SDI!



This system is for you!



Manuel Frias (manuel.frias@helcom.fi) designed this presentation in October 2016.
It was presented in the 2nd Baltic MSP Forum in Riga in November 2016
Adapted to SlideShare

