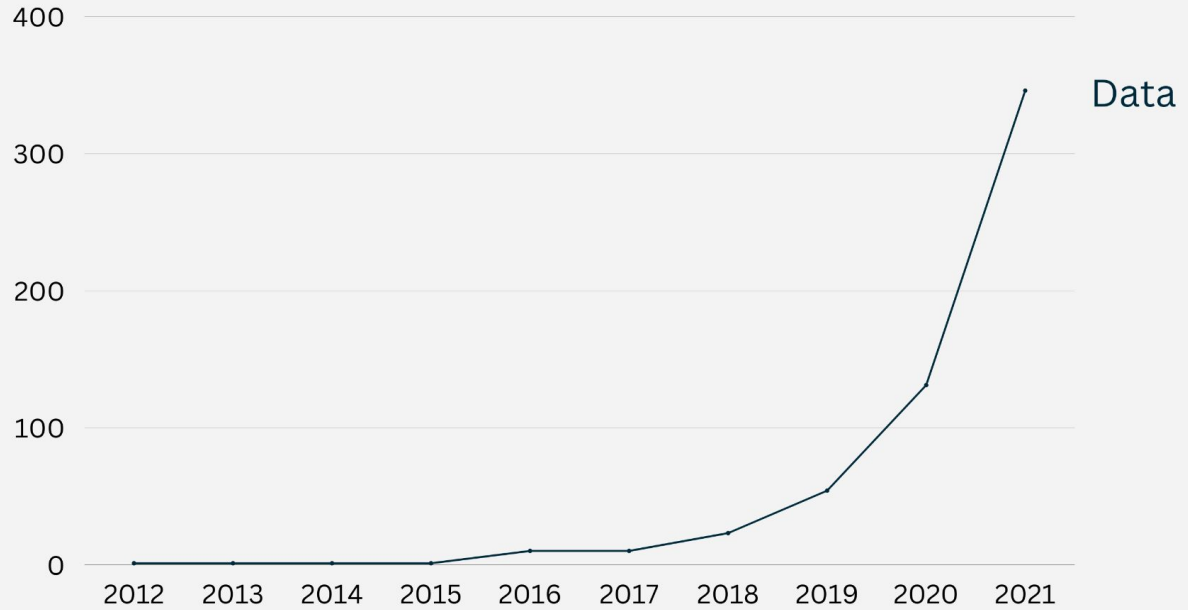


Source: Twitter, Jens von Bergmann





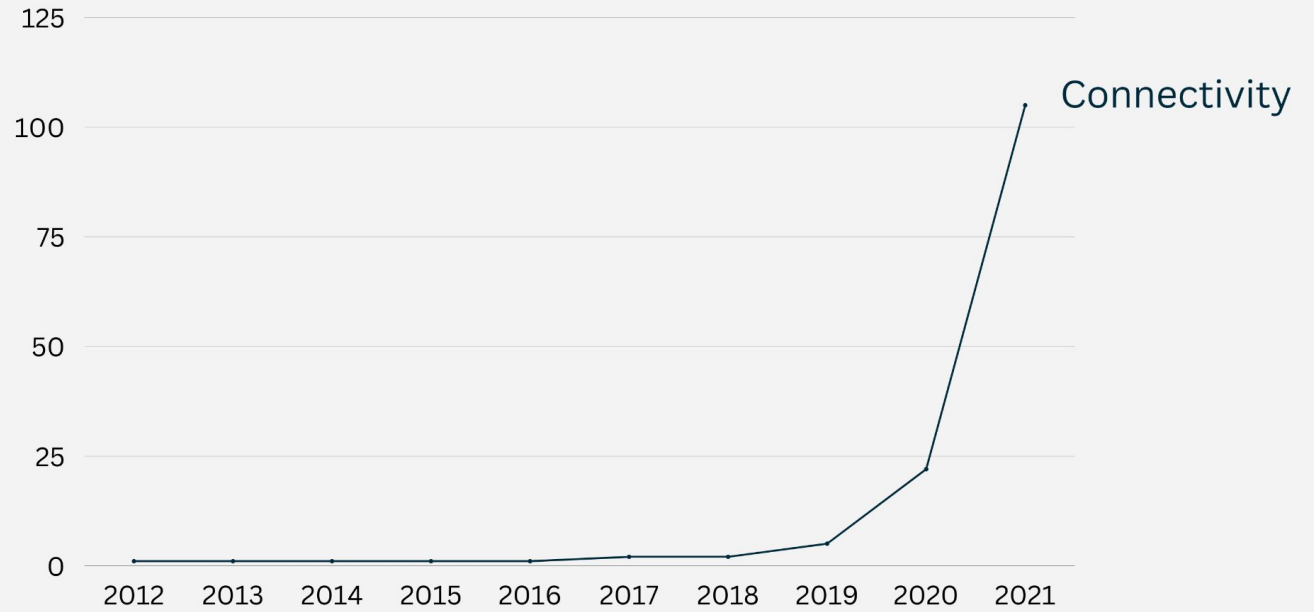
Thetius IQ signals. Market announcements related to data and analytics 2012 - 2021



Source: Thetius IQ

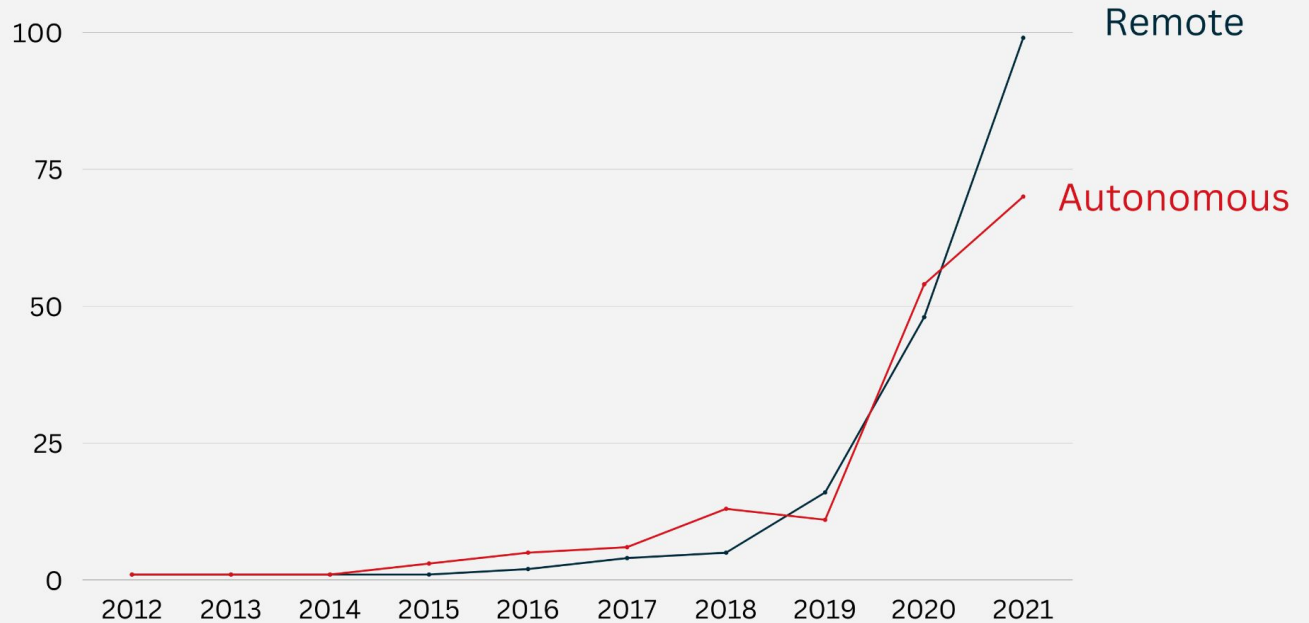


Market announcements related to vessel connectivity 2012 - 2021



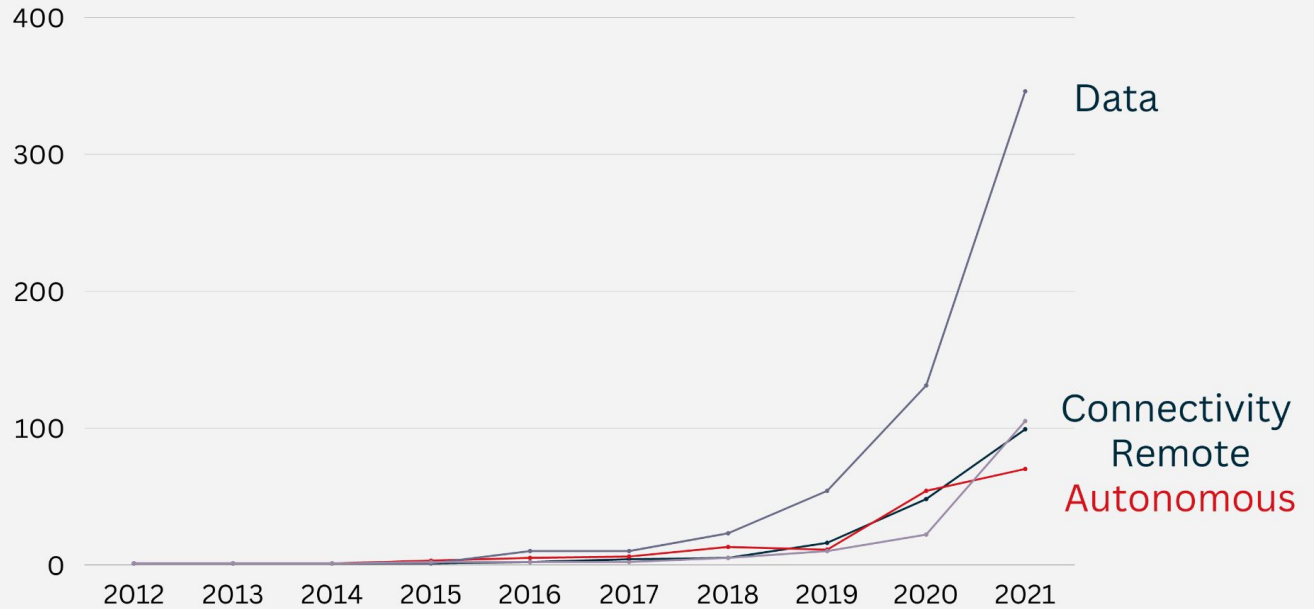
Source: Thetius IQ

Market announcements related to remote and autonomous vessel operations 2012 - 2021





Combined graph showing market announcements related to data, analytics, connectivity, remote and autonomous operations 2012 - 2021



Source: Thetius IQ

\$40,000,000,000

\$30,000,000,000

\$20,000,000,000

\$10,000,000,000

\$0

2018/19

2019/20

2020/22

2021/22

2022/23

\$32bn invested or
committed in 2022/23

**Annual investment in
decarbonisation
technologies and
alternative power
sources 2019 - 2023**

Source: Thetius IQ



Buyers



Suppliers



Enablers



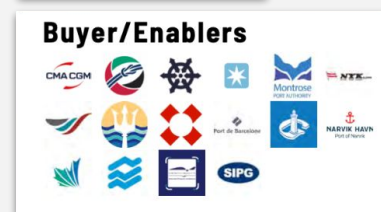
Supplier/Enablers



Supplier/Buyers



Buyer/Enablers



Source: Maritime Decarbonisation Technology Outlook, H1 2023, Thetius



\$40,000,000,000

\$30,000,000,000

\$20,000,000,000

\$10,000,000,000

\$0

2018/19



2019/20

2020/21

2021/22

2022/23

Annual investment in decarbonisation technologies and alternative power sources 2019 - 2023

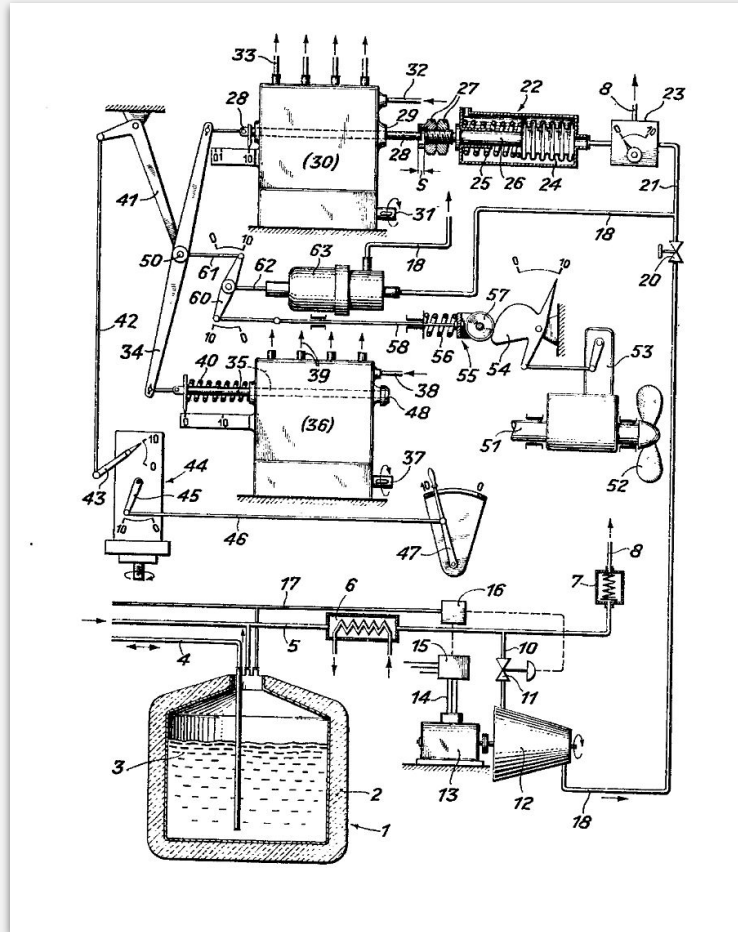
-  Alternative power sources
-  Optimisation technologies

Source: Thetius IQ





Super



Explore CO₂ savings by ship type and port

Simulated savings with BVS

Median CO₂ savings by ship group

Click to select a group.

14.5 %

All ships (92279 voyages)

13.8 %

Large bulkers (10582 voyages)

15.0 %

Small bulkers (30825 voyages)

10.4 %

Crude oil tankers (1689 voyages)

14.9 %

Product tankers (46139 voyages)

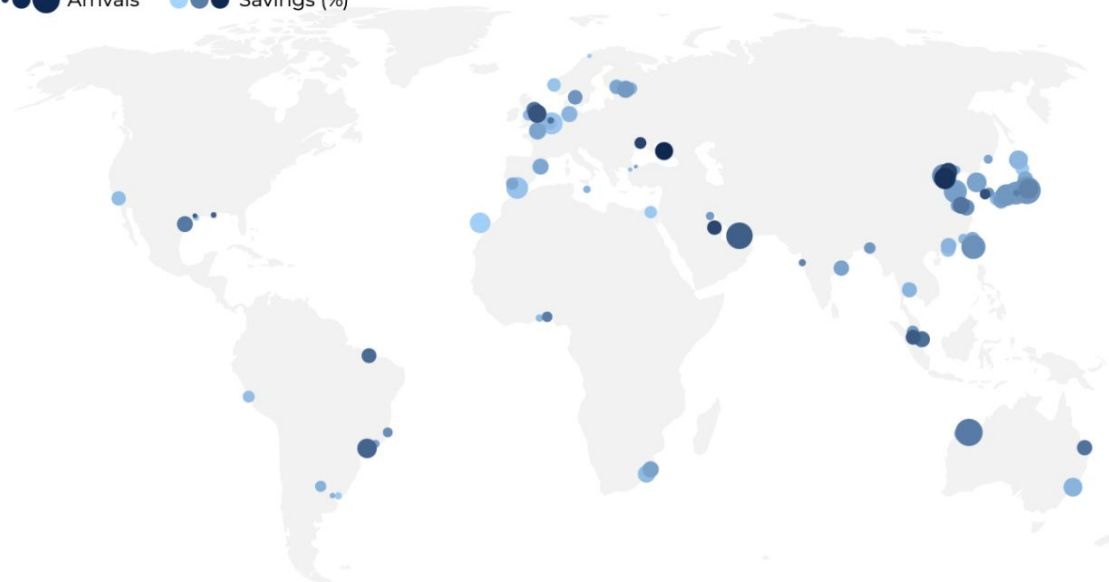
11.1 %

Other ships (3044 voyages)

Median CO₂ savings by port for all ships

Click to select a port.

● Arrivals ● Savings (%)



Enter IMO:
1234567

From Date: 17 Mar 2022
To Date: 09 Apr 2022



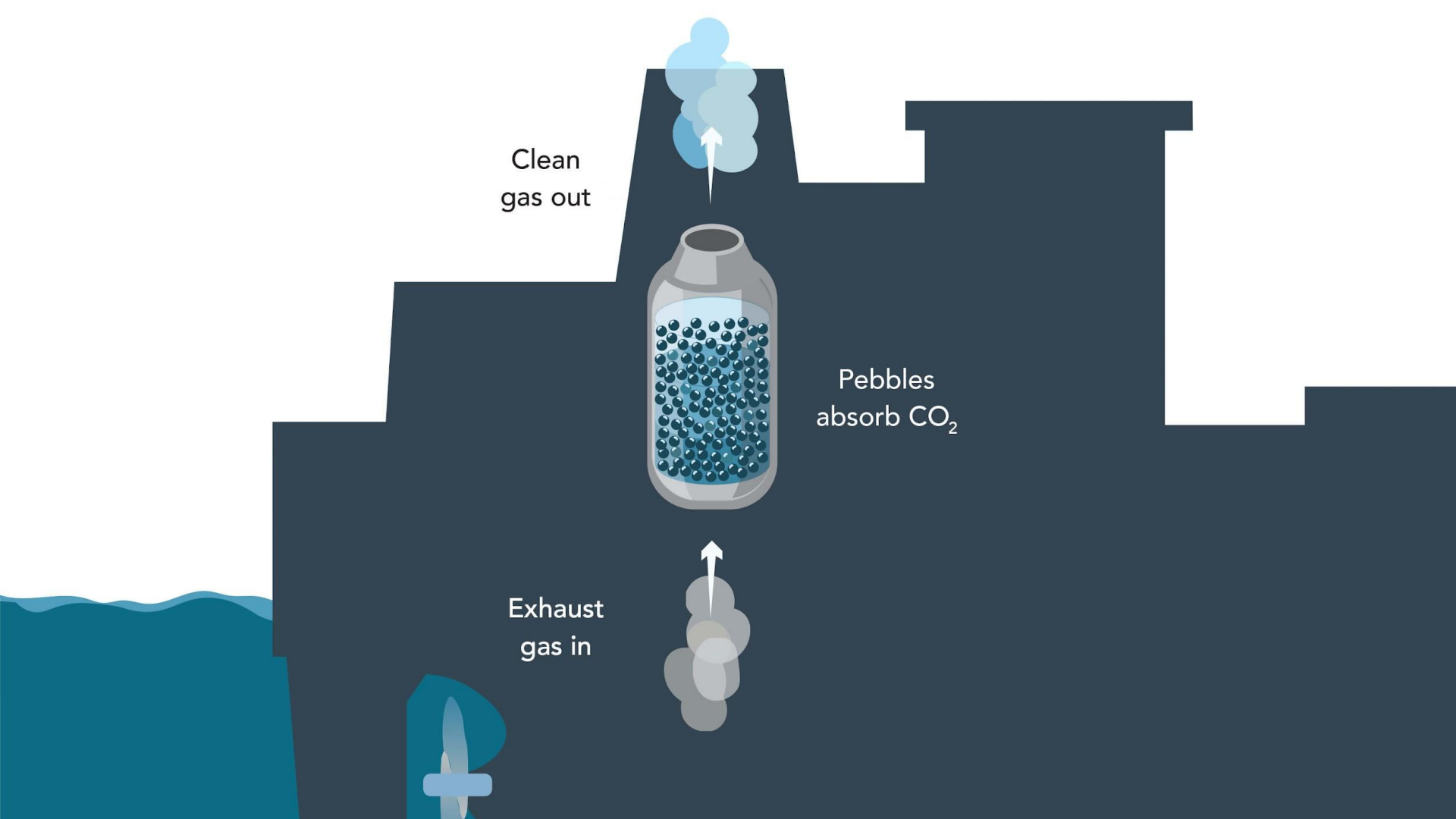
6.1 t

Today's fuel consumption
09 Apr 2022 12:00 at sea

 **126 t**
Total fuel con. since departure

LAT LONG
5°59'16.8"N 87°04'40.8"E









- We have hit a major inflection point in investment in decarbonisation technologies. You need to be ahead of the curve or you may be left behind.
- Even so, it will take many years for alternative fuel infrastructure to be widely available.
- There is a real danger that we are under-investing in optimisation and retrofit technologies, making it highly likely that we will miss the 2030 targets

Nick Chubb
Managing Director

nick@thetius.com
+44 (0) 7449 965 499

