

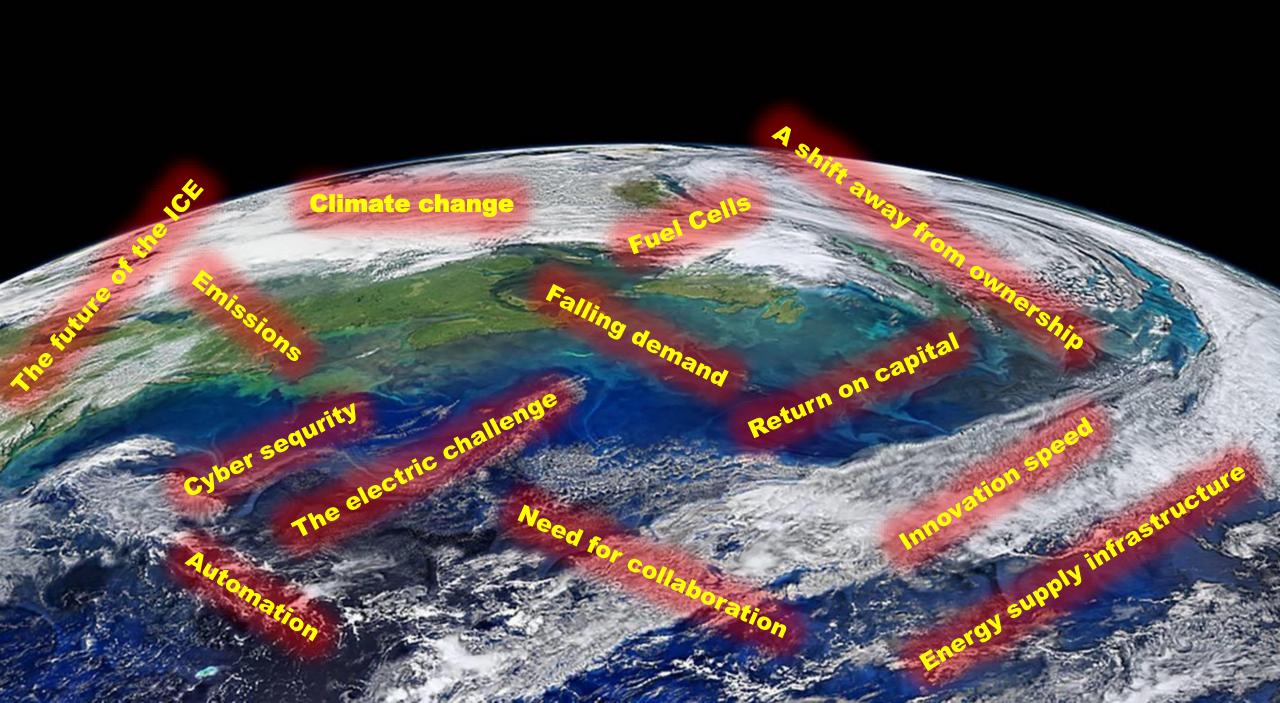
# Welcome to the 6th Product Development in Motion

### Speakers, Presenters - Thank You



The success of the event is created by Speakers, Presenters and Interaction - Thank You!

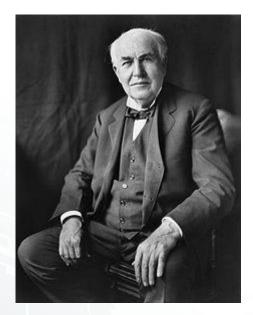
Combustion Engine - The Third Century	Lucien Koopmans Chalmers
How to accelerate and broaden Innovation	Helene Niklasson CampX of Volvo AB
The Way Forward in Propulsion System Engineering	Mats Andersson Volvo Cars
Electric Vehicles - How Charging Times Drive Voltage Choices	<b>Börje Grandin</b> Lotus Engineering
Autonomous Marine Transportation - "Not in my Lifetime"	<b>Jörgen Strandberg</b> Wärtsilä
ADAS Validation Capabilities In Cutting Edge Proving Grounds	<b>Peter Janevik</b> Asta Zero
Making Autonomous Drive Safe	Emil Tisell Qamcom
From Automotive to Compu-Motive. Evolution of Testing in Powertrain and Vehicle Development	Giuseppe Corcione AVL
The ADAS Experience and Roadmap	Bernhard Schick, Seda Aydogdu University of Kempten
Why the best Batteries are made of Scrap	Artiom LaMadrid Northvolt
Compressed Agenda 2019	







In 1882 the world's first coal-fired public power station, the Edison Electric Light Station, was built in London. A Babcock & Wilcox boiler powered a 125-horsepower steam engine that drove a 27-ton generator.





#### We tend to over-estimate what we can do in short term

And

#### We tend to under-estimate what we can do in the long term





## New York, 5th Avenue 1900

### Where is the car?





## New York, 5th Avenue 1913

#### Where is the horse?

"Innovation is seeing what everybody has seen and thinking what nobody has thought." Dr. Albert, Szent- Györgyi

Nothing can stop a better technology

## So in the face of overwhelming odds, I'm left with only one option. I'm gonna have to science the shit out of this.

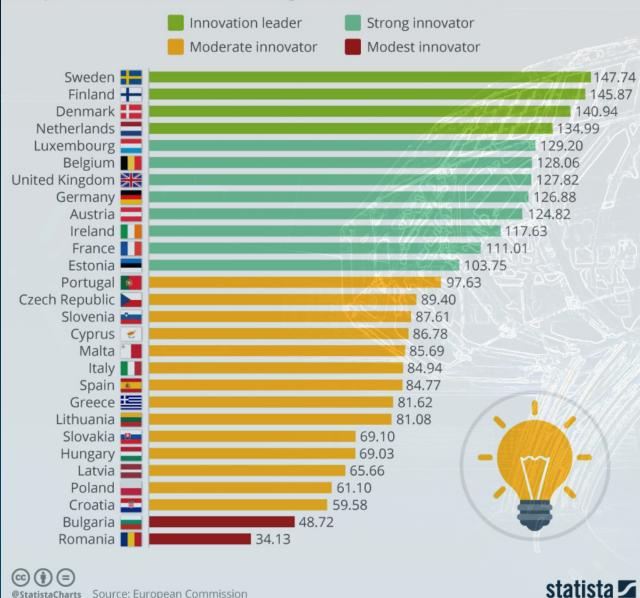
THE MARTIAN HoopoeQuotes.com

## Over \$900 billion has been spent attempting to bring Matt Damon back from distant places.

- Courage Under Fire (Gulf War 1 helicopter rescue): \$300k
- Saving Private Ryan (WW2 Europe search party): \$100k
  - Titan A.E. (Earth evacuation spaceship): \$200B
  - Syriana (Middle East private security return flight): \$50k
  - Green Zone (US Army transport from Middle East): \$50k
- Elysium (Space station security deployment and damages): \$100m
- Interstellar (Interstellar spaceship): \$500B
- The Martian (Mars mission): \$200B

#### Sweden Ranked The EU's Most Innovative Nation

European Innovation Scoreboard rankings in 2019 (150 = most innovative)



@StatistaCharts Source: European Commission





## **ENJOY**!

ENGINE IN THE LOOP

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X IN THE LOOP

## MAKE THIS YOUR EVENT