Interconnectedness and digitalization is a megatrend in the car industry

How can the boating industry deal with this challenge?

Prof. Dr. Jürgen Büddefeld

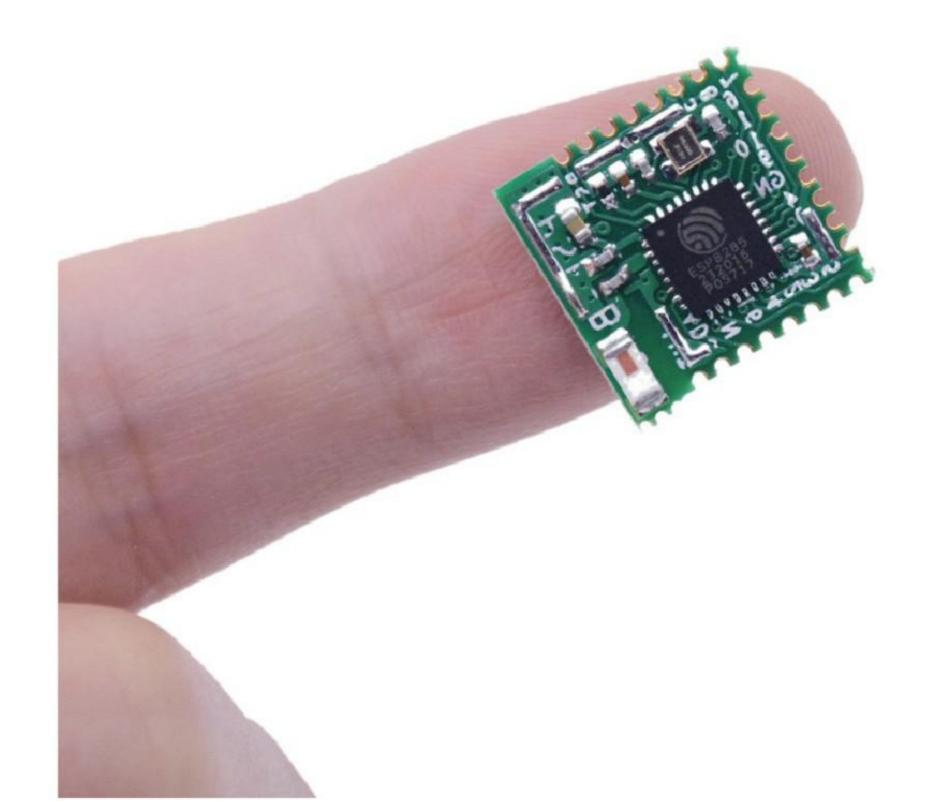
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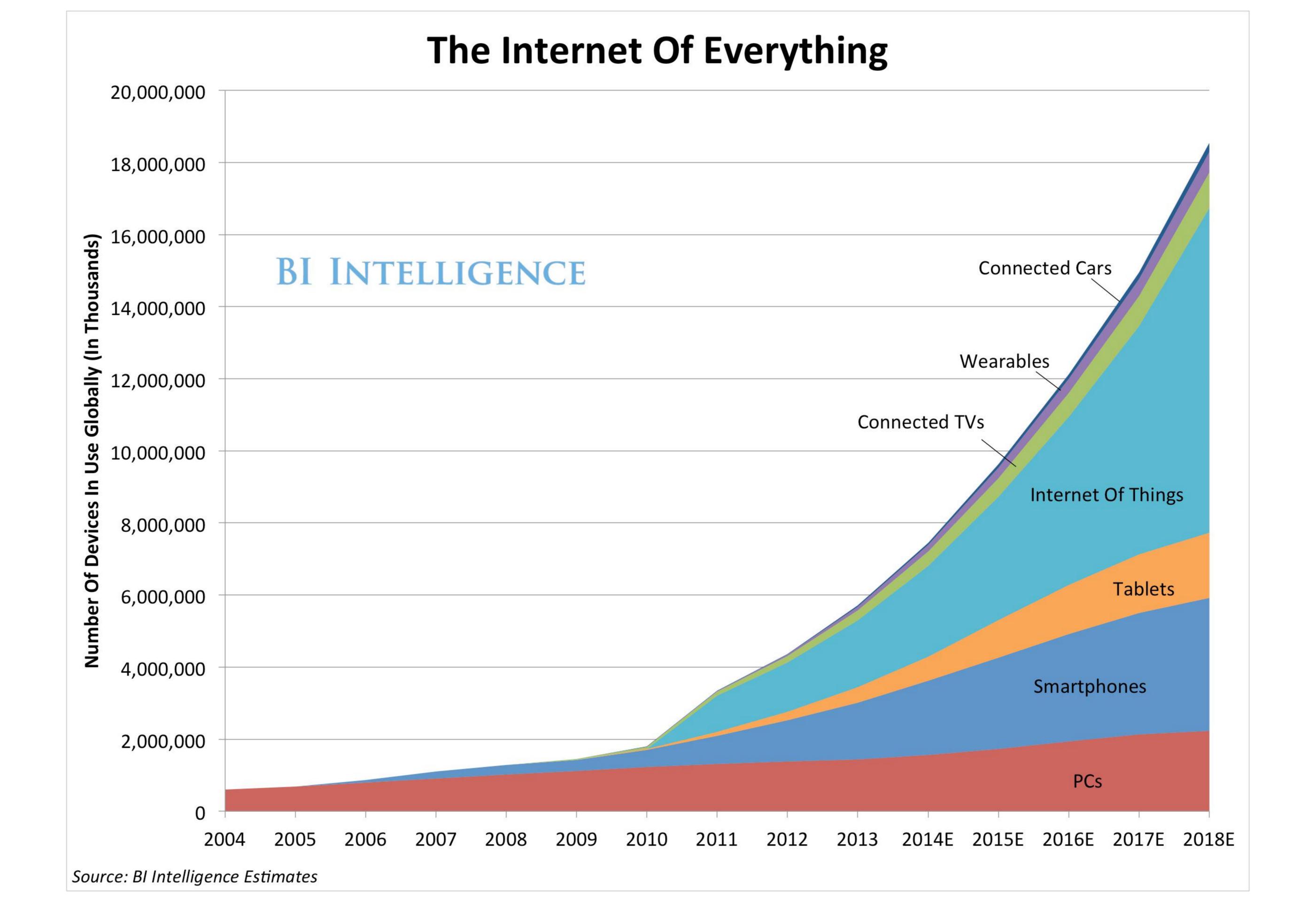
Competence Center Assisted Sailing and Sustainable Boating

Niederrhein University of Appl. Sciences, Krefeld, Germany bueddefeld@compass2025.de

1. The 3rd industrial revolution

- "Internet of Everything" is digital interconnectedness
 - Today, interconnected microcomputers for IoE fit on a finger tip and cost some cent
- 3D Printing is digitalization of manufacturing
 - Manufacturing becomes democratized:
 Desktop 3D printing will become as usual as desktop publishing





2. Why vehicle design is a runway to follow.

Almost everyone uses one!

- Vehicles became smart.
- Boats still follow Murphey's law: Anything that can break, will break!

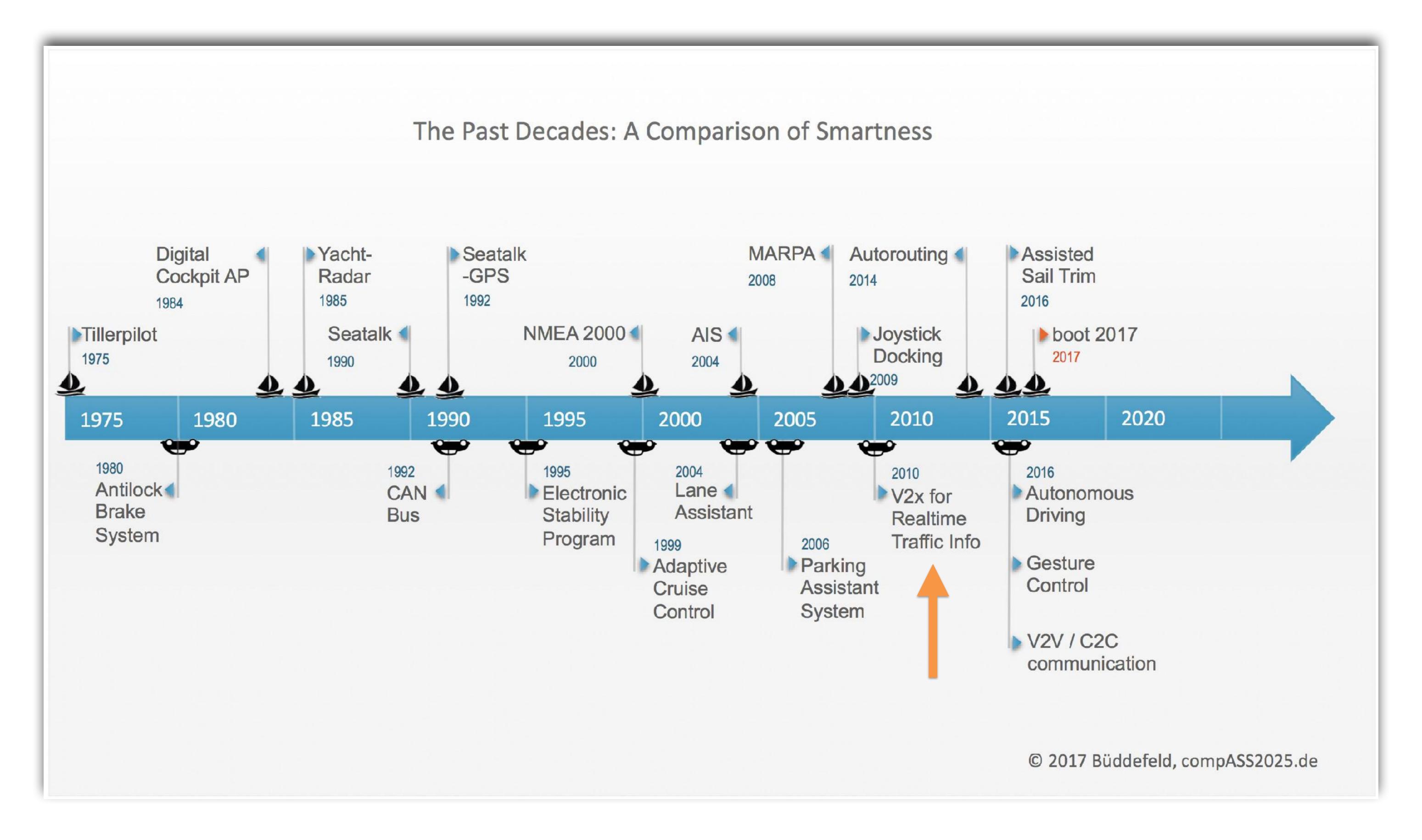
Boating should become as smart, safe and comfortable as driving!



Vehicle hull electronic components are designed

- for *much more* than 13 Bft true wind and
- much more than 135 km/h salty splash water speeds
- for a large number of units in cost optimized serial production

3. The past decades: A comparison of smartness



V2X paired with Augmented Reality

 V2X interconnected traffic signs by holographical projection activated by demands of actual traffic density



Ambient Assisted Living

- Next generation smart watch with holographical display
- On CES 2017 BMW showed a prototype of a holographical user interface:
 HoloActive-touch-technique

