# INNOVATION

#### JOINT TECHNOLOGY INITIATIVES









fuel cells & hydrogen for sustainability



**Innovative Medicines Initiative** 





Joint Exhibition 30 September - 4 October 2013

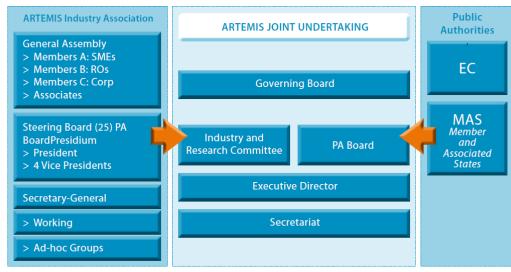
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# THE ARTEMIS PROGRAMME & SUCCESSES

Alun Foster

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ARTEMIS-JU is a Public-Private Partnership funding R&D&I on EMBEDDED CO



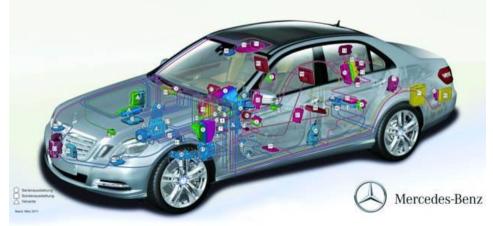
on EMBEDDED COMPUTING SYSTEMS with a 3-PARTITE FUNDING MODEL (EU + Participating Member States + Industry)

'Industry' is represented by the **ARTEMIS Industry Association – "ARTEMIS-IA"** 

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#### Embedded Systems and Society

Increase of electronic systems, especially as Embedded Systems, is required for

- mastering complexity
- meeting environmental challenges
- competitiveness
- cost efficiency

This impact will even increase !

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## **INNOVATION:**



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## **INNOVATION = achieve** critical mass through **"Self Sustaining Innovation** Ecosystems"

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"ARTEMIS is more than a funding

- programme ..."
  - PROJECTS
- CLUSTERS <----

FUNDED by ARTEMIS-JU

> MANAGED by ARTEMIS-IA

- Innovation Pilots ("AIPP")
- Centres of Innovation Excellence and

#### "SELF-SUSTAINING INNOVATION ECOSYSTEMS"

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Major Achievements: What has ARTEMIS built?



- 1. The largest programme ever focused on Safety Critical Systems
- 2. The largest programme ever, focused on Multi-core Technology: Low power, high performance
- 3. ARTEMIS has created the AIPPs: the largest Pilot Projects on Embedded Systems, addressing key societal challenges

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## The ARTEMIS Portfolio Analysis

Available at <u>www.artemis-ju.eu</u>

#### Core of the "ARTEMIS Book of Successes"

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# What



#### Step up to CPS !

- Nano-scale semiconductors (a KET)
- Smart systems of sensors/actuators
- Embedded Computing and Control
- Mastering "Cyber-Physical Systems"
- MASTERING the ELECTRONICS COMPONENTS and SYSTEMS VALUE CHAIN

#### ECSEL Joint Undertaking

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# WHY ???

- ICTs drive INNOVATION
- INNOVATION leads to
  COMPETITIVE
  INDUSTRIES
- COMPETITIVE INDUSTRIES lead to JOBS

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Europe accounts for approx. 20% of jobs in Digital Technology, corresponding to 9.1 m jobs



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# THANK YOU