



Innovation Centre for  
Sensor and Imaging Systems

● Scaling up new technologies on the national IoT network

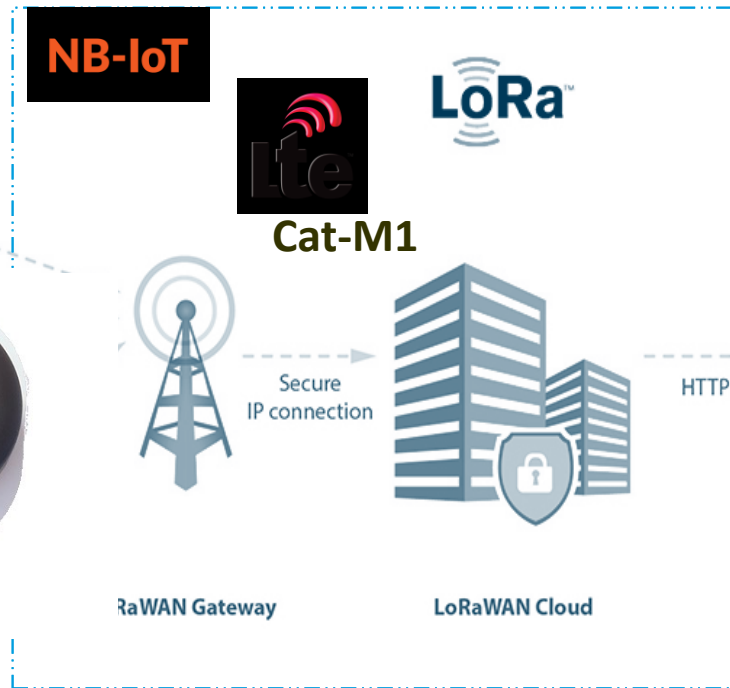
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## Hardware



## Communications network infrastructure



## Cloud based apps



■ 17% CAGR over the next 5 years 1.3 trillion dollar market size  
(Machina 2017)

■ Business forecast to be top adopter

- lowering operating costs – predictive analytics
- increasing productivity – data gathering
- expanding to new markets or developing new product offerings
- Improving maintenance efficiency
- Monitoring of consumables
- End user communication

■ Governments 2<sup>nd</sup> focusing on

- Productivity
- Cost reduction
- Quality of life
- End user communication

## Opportunities

Ecosystem

Testbeds

Business models



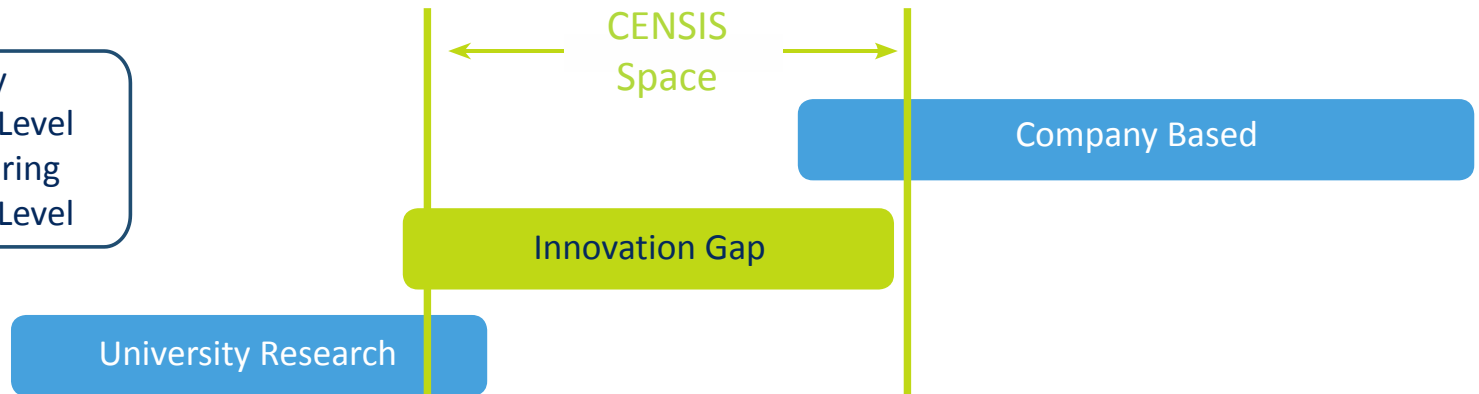
## Challenges

Security

Data volume

Interoperability

**TRL:** Technology Readiness Level  
**MRL:** Manufacturing Readiness Level



TRL	1	2	3	4	5	6	7	8	9		
Main Funder	Research Councils			IUK/H2020/KTP/CENSIS			Industry				
MRL			1	2	3	4	5	6	7	8	9
	Basic Idea	Concept Developed	Experimental Proof of Concept	Process Validated in Lab	Process Validated on Production Equipment	Process Capability on Production Equipment	Capability Validated on Economic Runs	Capability Validated over range of parts	Capability Validated over range of parts	Capability Validated on full range of parts over long periods	



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