

Cloud Computing

Cloud and Adjacent
Technology Trends



Cloud Computing

- Large corporates open their data centers to end-users
- Data collected by NSA > 5 Zettabytes (1 Million Petabytes)

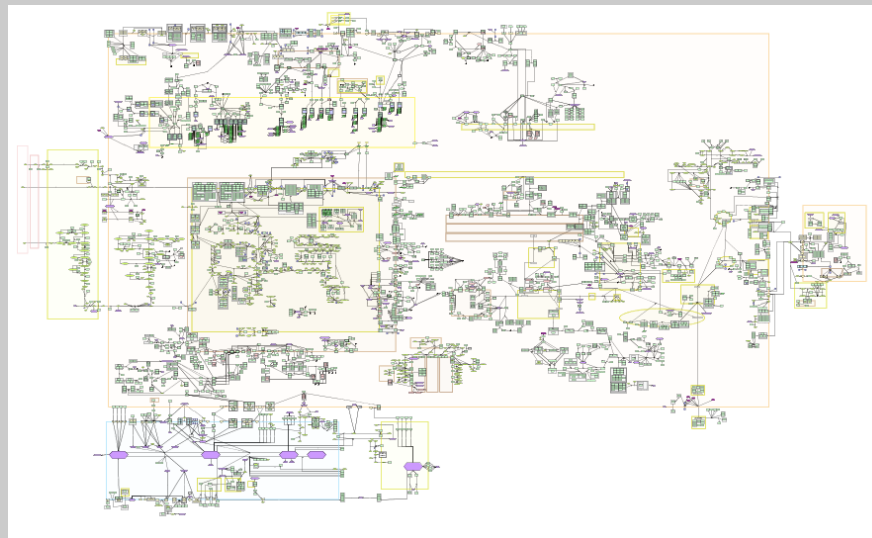


Domain driven applications

- Systems Biomedicine/Bio-informatics:
 - ✓ Personalised medicine: genomic analysis added to 1000s of parameters will help fine-tuning medication and minimising side-effects.
 - ✓ Mining all existing cases in order to find analogies.
 - ✓ Going from a model-driven approach to machine learning approach. And finally binding the 2.

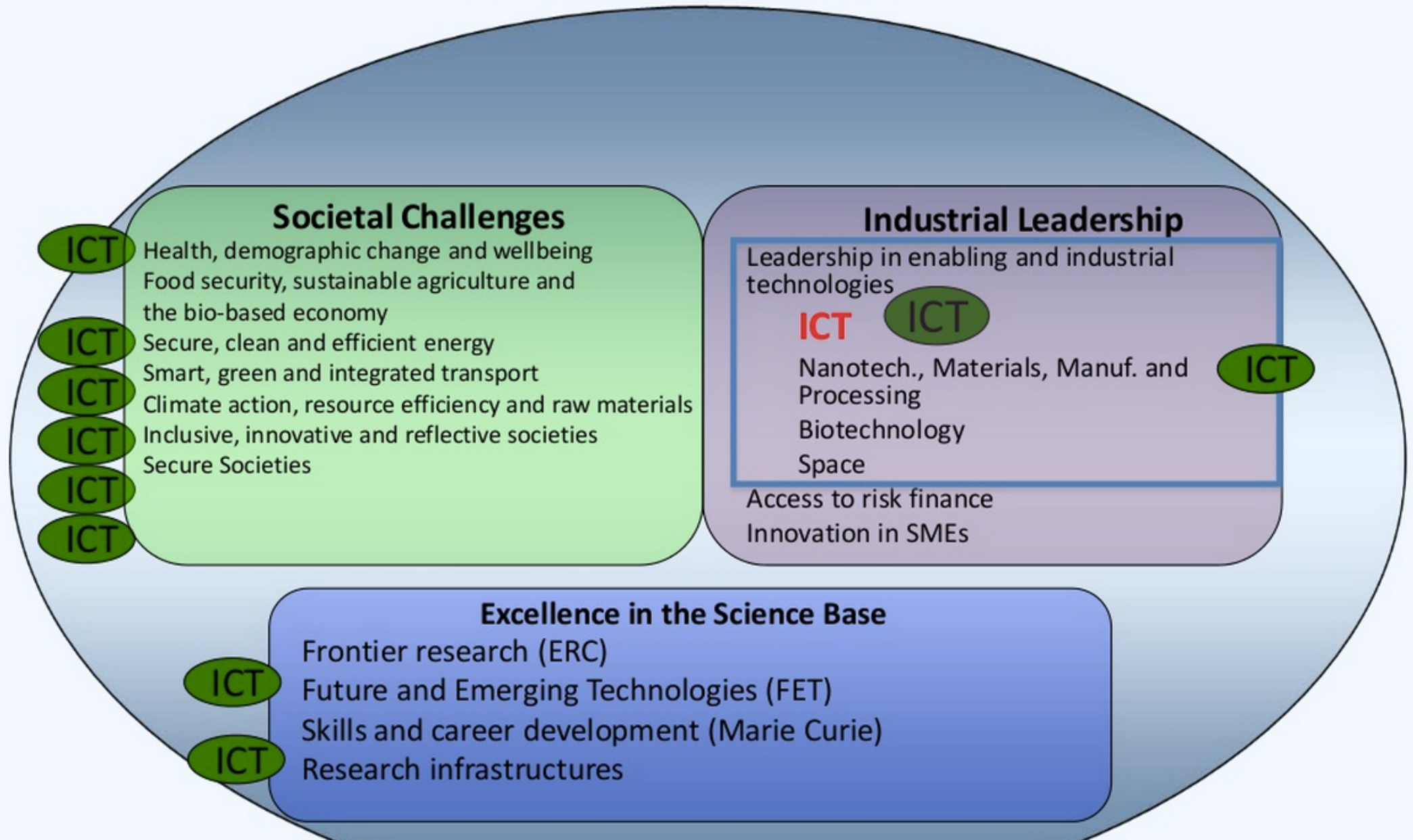


IBM Watson

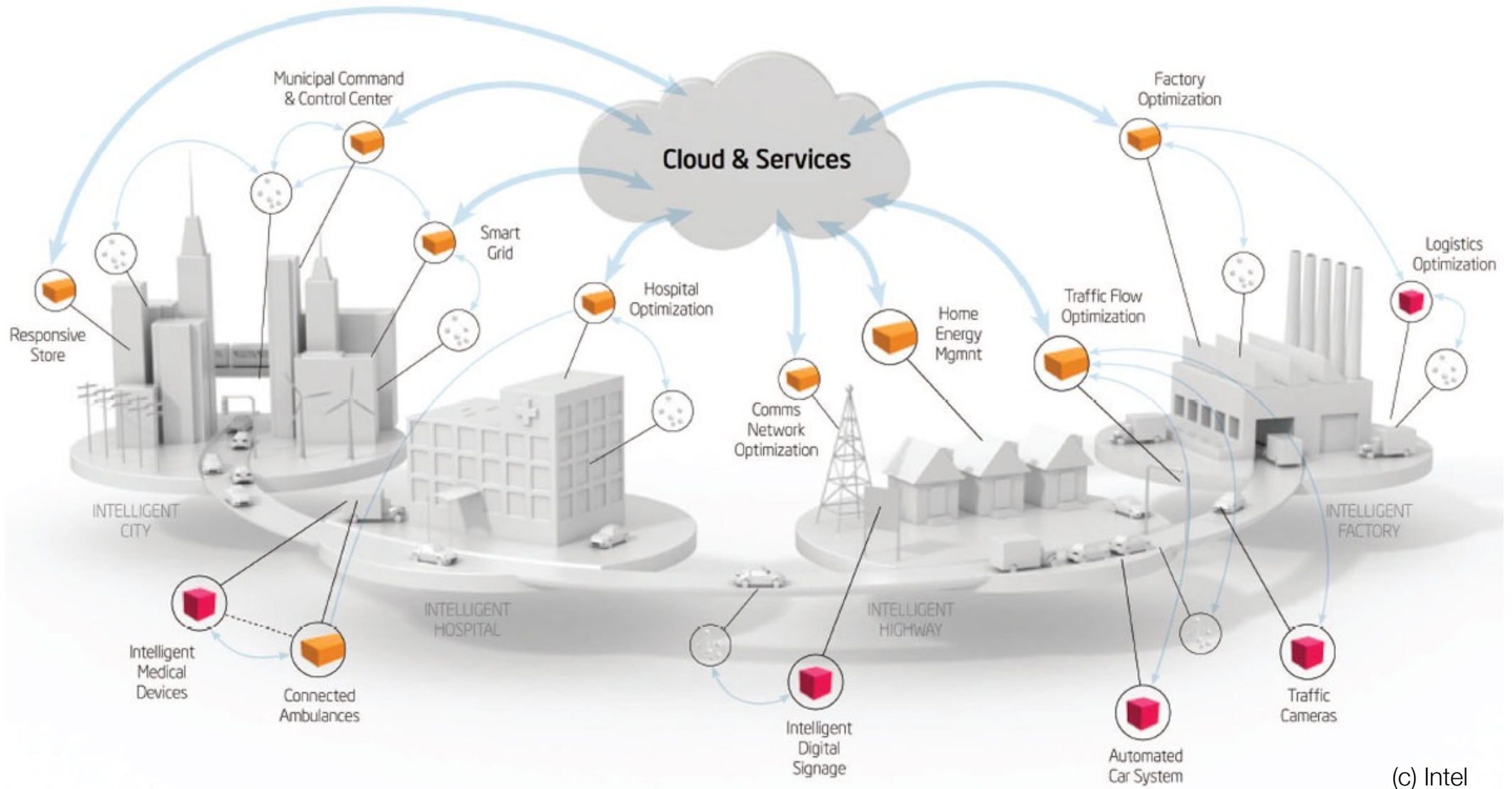


Parkinson's Disease Map

Europe 2020 priorities



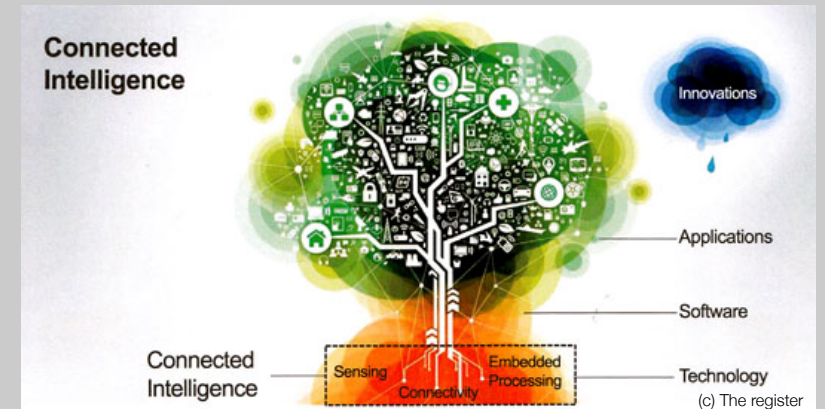
IoT/Cyber-physical systems



(c) Intel

Next Steps

- E-infrastructures
- Workflows and Distributed computing on the edge
- New generation of services and applications
- Standardisation for inter-operability is required

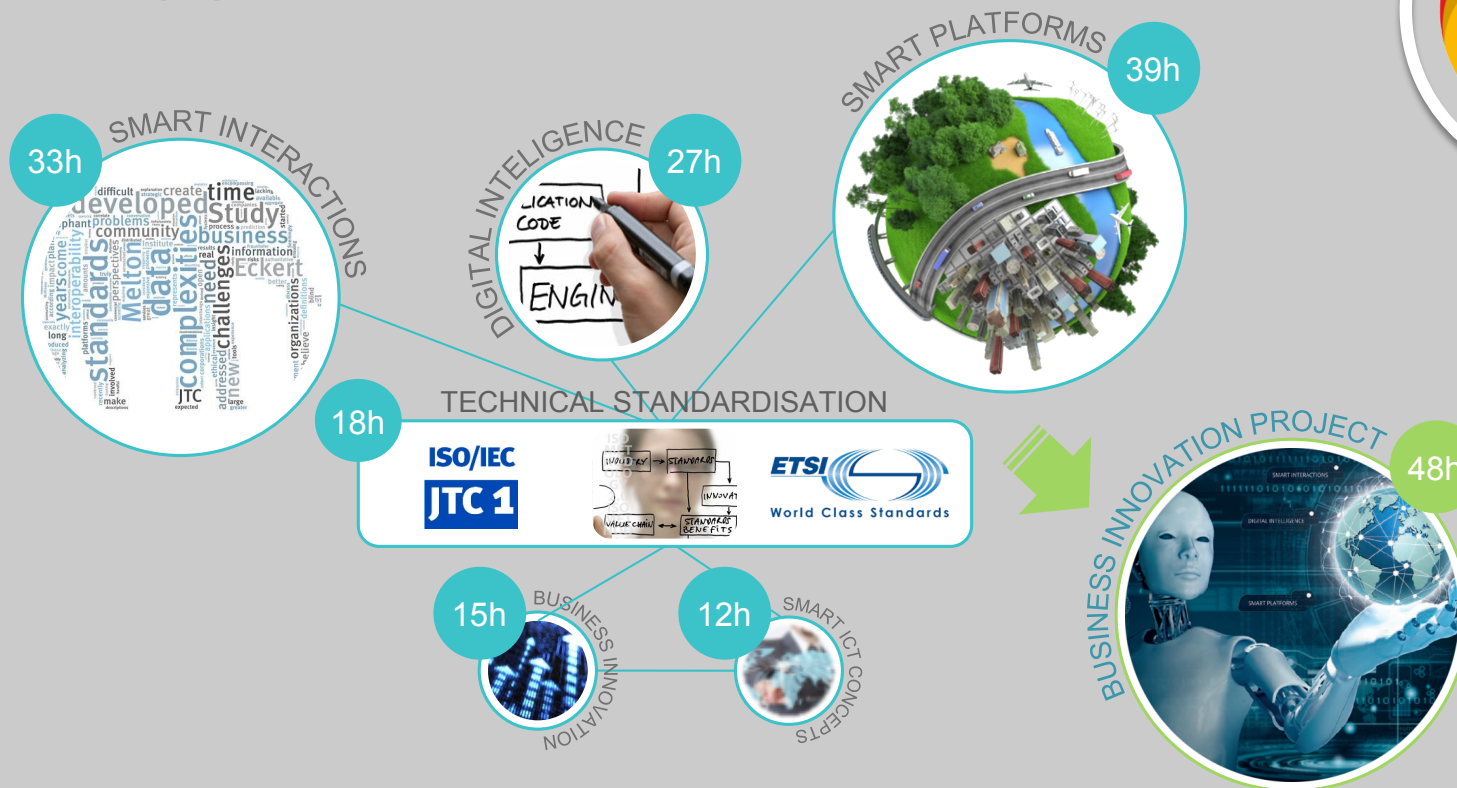


- Luxembourg?
 - ✓ Great infrastructure in terms of data centres and fiber
 - ✓ Ideal testbed
 - ✓ Ideal legal and fiscal environment
 - ✓ Need of higher level services and High Performance Computing



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