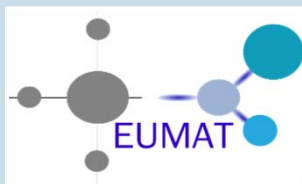


Materials for a Better Future



EuroNanoForum
2019

Rodrigo Martins

President of European Academy of Science, President elected of the International Union of Materials Research Societies, member of Senate of the European Materials Research Society

Elvira Fortunato

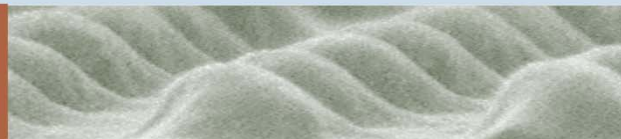
CENIMAT/I3N, Materials Science Department, Faculty of Sciences and Technology, Universidade Nova de Lisboa and CEMOP/UNINOVA, Campus de Caparica, 2829-516 Caparica, Portugal



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INSTITUTO DE
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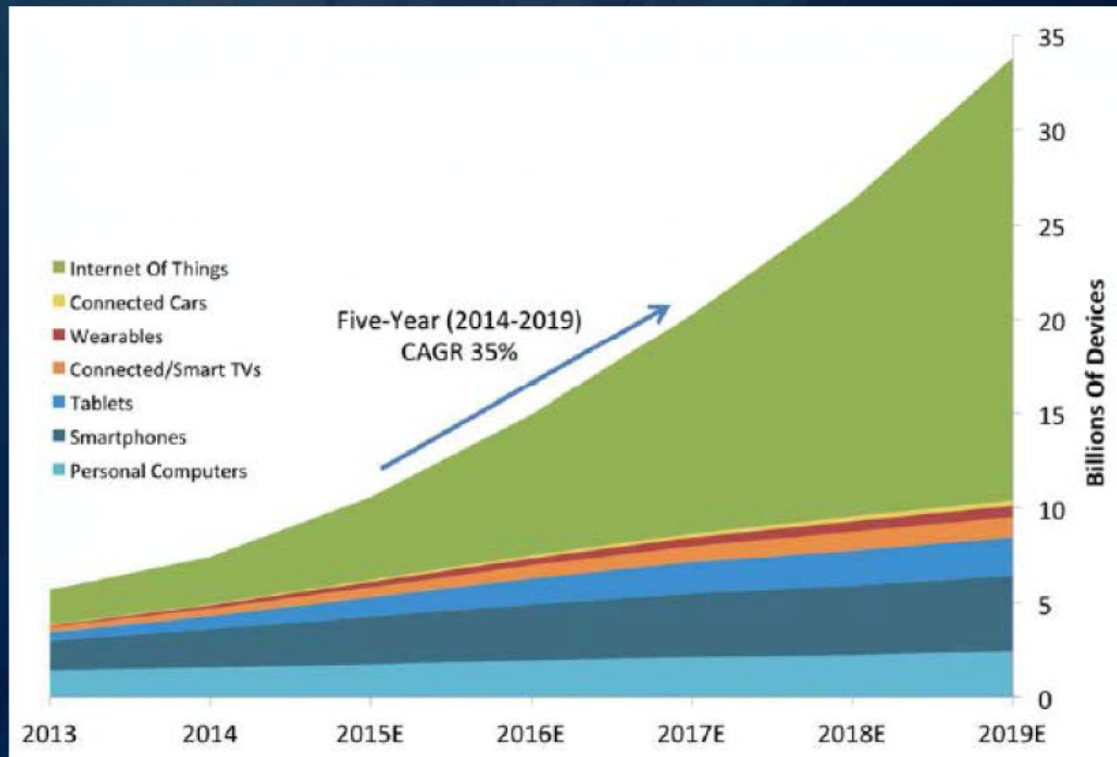


Challenges Raised by the Internet of Things

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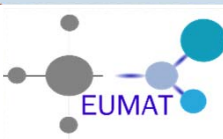
Number of Devices Connected to the Internet as of 2014*



Requirements for Future Ubiquitous Elec



- **Ultracheap/disposable**
Scalable production of electronic inks
- **Seamless integration**
Printable flexible electronics
- **Power management**
Ultra low power electronics/
Energy conversion/storage
- **Efficient wireless communication**
High speed electronics/
New devices for WIFI



Changes of Paradigm: Mobile Revolution!

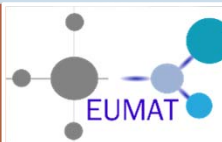


D w k h # w d l q v 2 P h w r \$

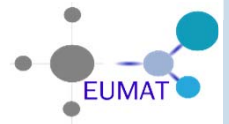
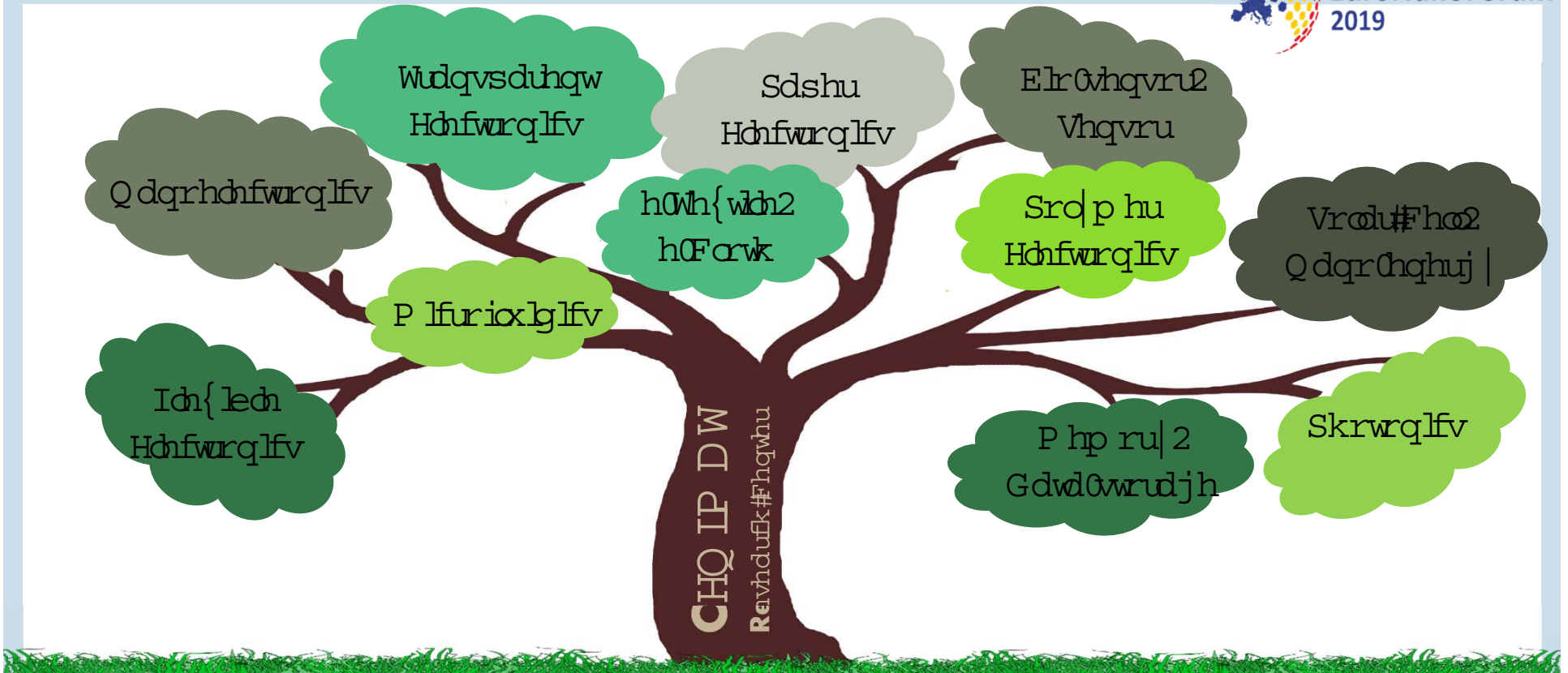
Before ...



Today!



Materials for a Better Future



ŠLi# rx#z dqwr#j r#idw#j r#darqh1#
 Li# rx#z dqwr#j r#idu#j r#rjhwhuõ

