European Utilities Driving Open Innovation in the Energy Market Enabled by Future Internet Technology

Dr. Fiona Williams

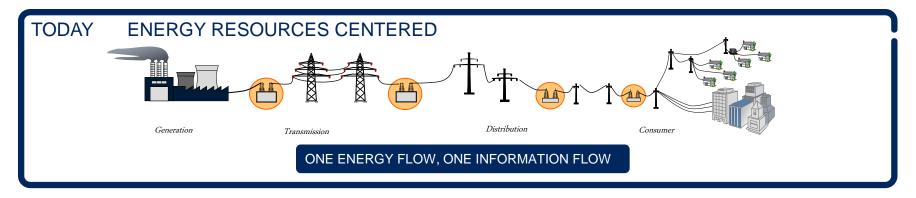
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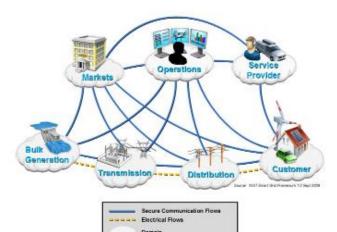




GRID transformation



EXPECTED DISTRIBUTED AND PARTICIPATIVE MARKET



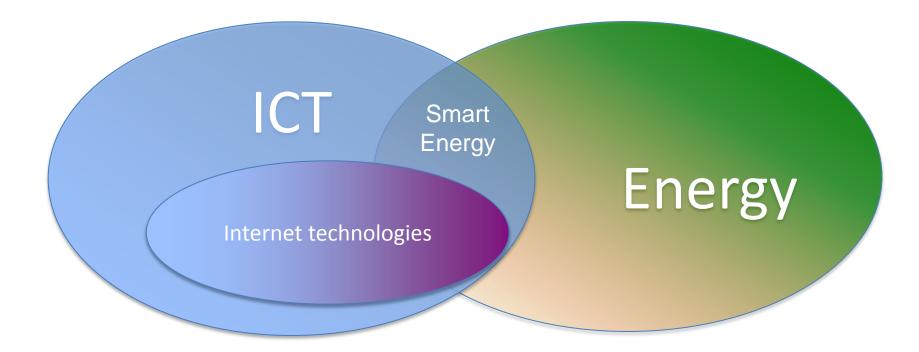
- Distributed generation and consumption
- More focus on customer concerns; quality, security of supply
- New market participants, pro-sumers, aggregators, mobility service operators, etc
- New management models; transparency and non discriminatory access.
- New products and services.



BI-DIRECTIONAL ENERGY FLOW, "N" INFORMATION FLOWS



The Future Internet of Energy



Benefits of using future internet technologies:

- Iower costs for application development
- easy access for new partners
- scalability of applications

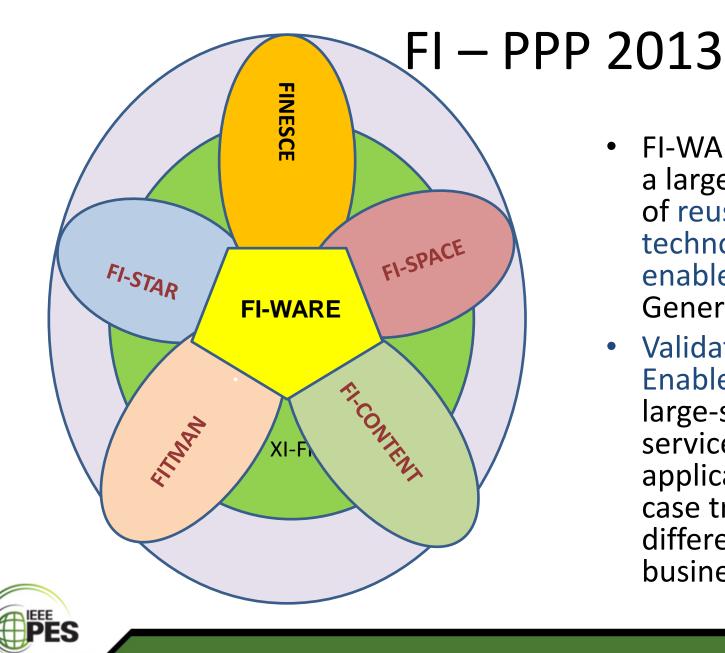
Power & Energy Society

- makes innovations based on IP accessible in the energy sector
- better network performance

Future Internet of Energy: organising many...

- (volatile) distributed energy production
- (flexible and unpredictable) consumers
- electric vehicles (as consumers and storage)



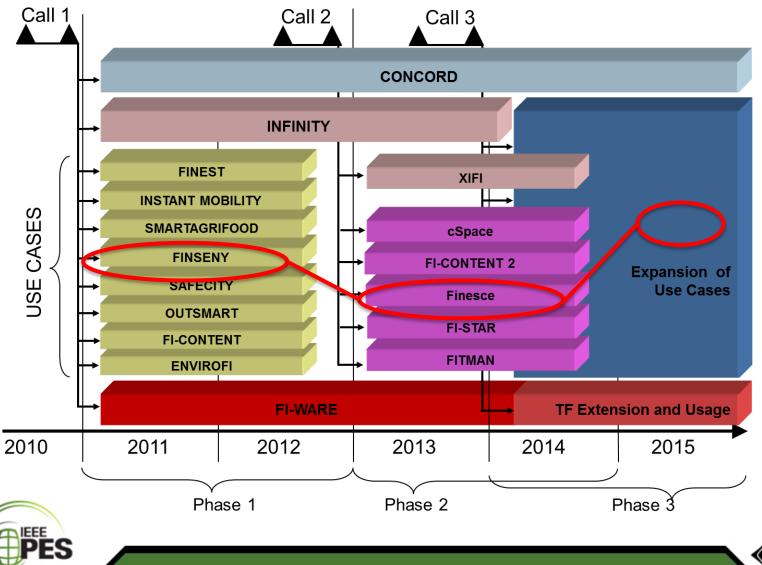


Power & Energy Society

- FI-WARE provides a large selection of reusable key technology enablers, called Generic Enablers
- Validate Generic Enablers via large-scale service and application use case trials in different business sectors



FI-PPP Family of projects



EEE

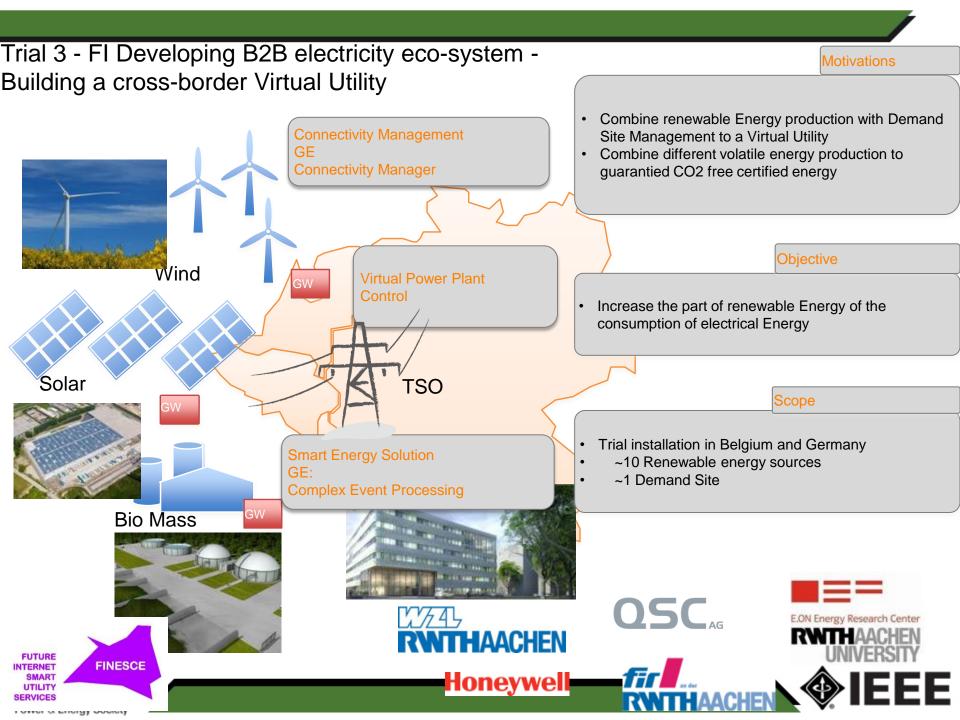
Power & Energy Society*

20 partners and 7 trials sites

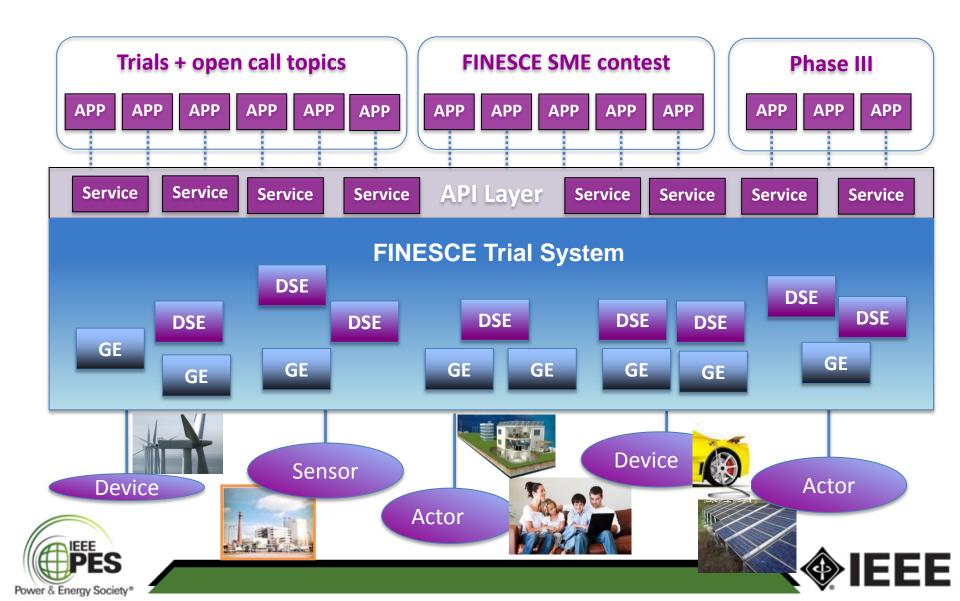


Power & Energy Society*

EEE



API Layer Offers Services to Apps



Smart Grid Stakeholder Group

"The Smart Grid Stakeholder Group (SGSG) has been established to create a liaison between industry organisations involved in the evolution and roll out of Smart Grids."



8th Smart Grid Stakeholder Group Meeting



9th Smart Grid Stakeholder Group Meeting





FINESCE – Team up with us!

> FINESCE Student contests - Q1 & 2, 2014

 student contest (internships for winners) & hackathon, Ericsson will host winning students as interns

> FINESCE Trial Open Days – experience our trials 1st hand!

- March 10, 2014 Madrid, Spain (Smart office buildings trial demonstration)
- June 12, 2014 Aachen, Germany (Smart car factory and VPP) Date to be confirmed
- September 2014 Dublin, Ireland (EV charging and Grid trial)
- December 2014 Horsens, Denmark (Smart Region & homes)
- February 2015 Terni, Italy (E-marketplace for energy)
- June 2015 Malmö, Sweden (Smart City area)
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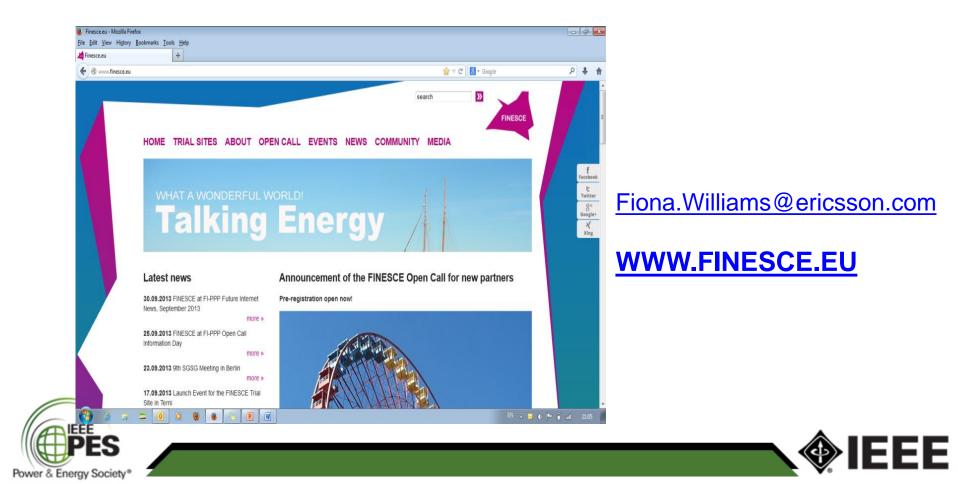
- FINESCE Innovation Community (www.finesce.eu)
 - for all interested to follow what we are doing
 - membership is free of charge just enter your email address on our web site or give us a business card







THANK YOU FOR YOUR ATTENTION!





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