



## Advanced Technologies for Biogas Efficiency, Sustainability and Transport

Simon Murray



## Project Overview



- Marie Curie Initial Training Network
- Total Budget: €3.86 million
- 8 Partners in 4 Countries
- 14 Researchers
- 4 year project
  - July 2013 to June 2017



## Science & Technology



### Feedstock and Digestion

- Life Cycle Analysis
- Synergies of Co-digestion
- Supplementation of trace elements
- Macroalgae as AD substrate

### Process Monitoring

- Genomic analysis of hydrolysis
- Online spectroscopic monitoring of AD plants



## Science & Technology



### Upgrading and Supply

- Combined processes for H<sub>2</sub>S and CO<sub>2</sub> removal
- Novel technologies for biogas compression and separation

### Utilisation

- Surplus electricity to biogas via hydrogen
- Micro-reforming of biogas for Micro-CHP
- Biogas for chemical storage and liquid fuels
- Integration of biogas into existing gas infrastructure
- Biogas distribution
- Digestate distribution



## Training, Dissemination and Outreach



- 3 Summer Schools
- Secondments
- International Conference
- Academic, Industrial and Public engagement



## Contact



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