



Network Conversations on the New European Bauhaus

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Smart Industry and Services

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Outline

- Handicaps
- Opportunities
- More future opportunities

- **Faculty of Engineering of Vitoria-Gasteiz:**
 - **University of the Basque Country**
 - **The larger educative institution in the Basque Country**
 - **Public institution**
 - **Serious**
 - **Economic rigor**
 - **Many internal/external reports**
 - **Years to implement changes**

We must be **IMAGINATIVE** to create **NEW OPPORTUNITIES**

- **“Serious” Science on Sustainability:**
 - ***Crazy*** ideas
 - Papers in reputed journals (devices, algorithms, etc.)
 - Papers in reputed journals (macroscopic point of view)
 - **PhD thesis (Quantification, Design and Methodologies for Implementation of New Energy Planning Models for Socio-economic Development):**
 - Energy Transitions
 - Social component
 - Decoupling between human development and energy consumption within footprint accounts
 - Low-consumption/impact energy model with high HDI
 - Used in the Spanish parliament

This work must reach the **people**



- **Actions internationally developed:**
 - **Erasmus+ project about Sustainability**
 - **“European Studies in Renewable Energies”**
 - **2015 - 2018**
 - **>240,000 € just for traveling**
 - **Short internships**
 - **5 universities (Turkey, Lithuania, Italy, Romania and Spain)**
 - **> 100 students mobilized**
 - **> 50 faculties mobilized**

- **Actions locally developed:**
 - **Mercedes-Benz Spain:**
 - This province is the most industrial of Spain (gross domestic product similar to Germany)
 - Factory in our city >5,500 employees
 - Joint PhD works (not a consultant)
 - Predictive detection of failures
 - Collaborative robotics
 - **Collaborations with local agents that promote innovative actions:**
 - City Council
 - Bic Berrilan
 - Companies Union (SEA)
 - Media



- **ENLIGHT:**
 - “European university Network to promote equitable quality of Life, sustainability and Global engagement through Higher education Transformation”
 - Fusing both concepts of “ENLIGHT” and “Smart Industry and Services”
 - “Applied Data Science” – Erasmus Mundus Joint Master Degree (specific branch for Industry 4.0)
 - NIU Galway, University de Bordeaux, University of the Basque Country

- **Application of an European project:**
 - **“Women STEAM Ambassadors”**
 - **STEAM: aims to integrate STEM (Science, Technology, Engineering, Mathematics) with the Arts as a means of enhancing the learning experience while demonstrating how all things are connected to each other**
 - **Universities: 3 Turkey, 1 Greece, 1 Portugal, 2 Germany, 1 Spain**
 - **2 years project**

Thanks for your attention!

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