

Sustainable Building Envelope Demonstration (SBED) Project

27th June 2013

Baglan Bay Innovation Centre



How To Get Your Ideas Adopted (and change the world)

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Buildings as Power Stations

Shared vision: 'To functionalise the whole building envelope ... new build and existing.'



Generate ➡ **Store** ➡ **Release**

SPECIFIC



- World-class centre
- Global consortium
- Paradigm shift in energy
- Focus
 - Economic growth
 - Breakthrough technology
 - World class centre
- Target
 - ‘Concept to commercialisation’ capability
 - Opportunity of a new industry
 - Economic growth
 - Renewable energy



Emerging Technologies in Functional Coatings

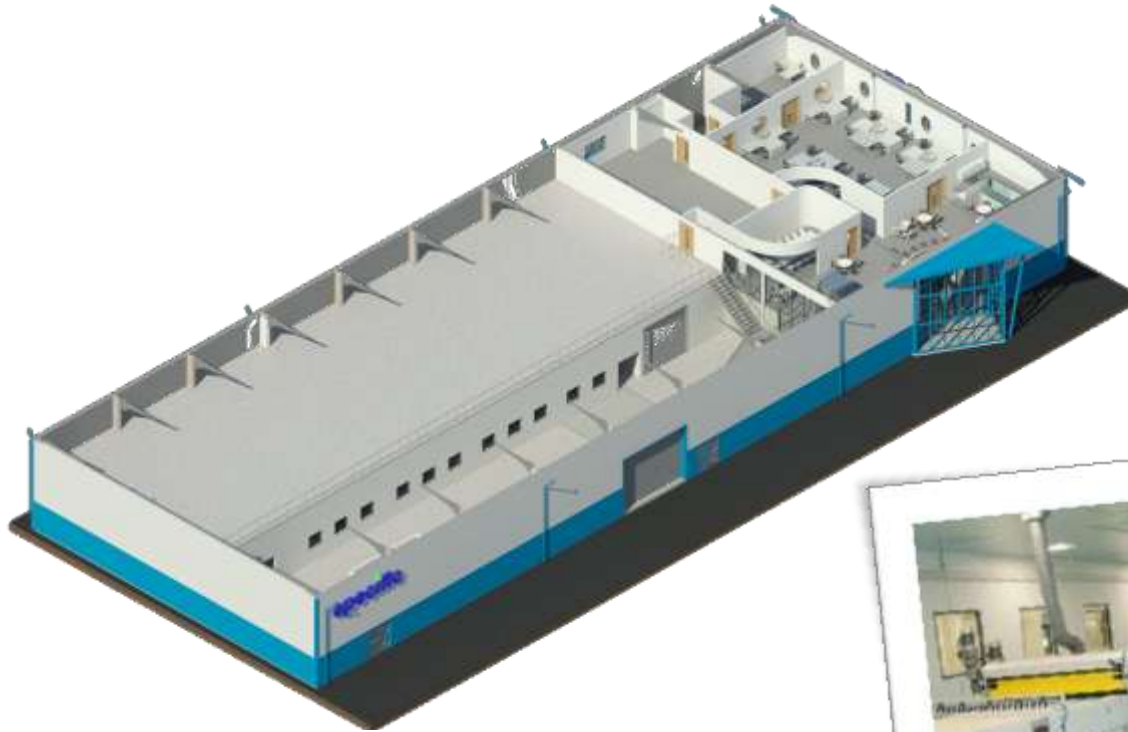


- **Generation: PV, Thermoelectric**
 - 3rd Generation emerging technologies
- **Storage:**
 - Large scale electrical storage
- **Release:**
 - Lighting, Heating
- **Water Purification**
- **Technology Demonstration**



Pilot Manufacturing Facility

specific



Sustainable Building Envelope Centre **specific**



Sustainable Building Envelope Centre **specific**



A Building as a Powerstation

specific



Residential Refurbishment



Deeside Leisure Centre (TSC & PV) **specific**



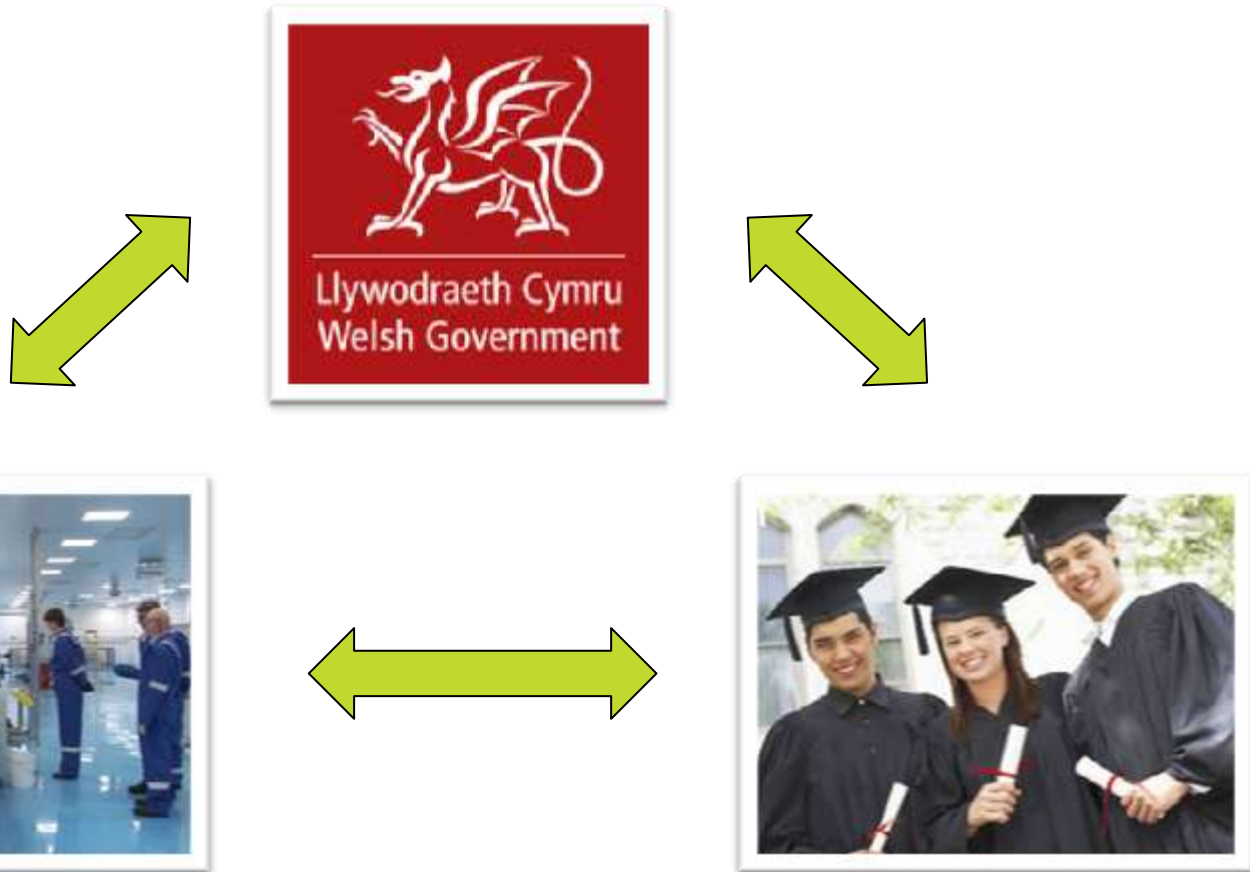
How To Get Your Ideas Adopted



Invent a better mouse trap and the world will beat a path to your door!!!

SBED : A Partnership

specific



Conclusions



- SBED : A Partnership
- Role of Demonstrators
 - Learning by doing
 - Hard benefits
 - Seeing is believing
 - Imagination
 - Innovations
- Wales is Ideally Positioned