

# A Welsh Appropriate Technology Training (WATT) Network

A Realistic Initiative?

# Introduction

- ICE Wales Chairman's Initiative
- Opportunity for students and graduates
- Practical, 'hands-on' learning experience
- Appropriate skills for a sustainable society
- Global Engineering

# Primary Aims

1. Establish a network of training centres in order to facilitate innovative learning opportunities for the students and young professionals of Wales to turn theory into practice.
2. Provide Wales with an appropriately skilled workforce for the sustainable development of our society and those less fortunate than ourselves.

# Immediate Objectives

1. Confirm the demand for the proposed concept and the shortfall in the facilities for its delivery.
2. Create the structure of the proposed network and establish a management board responsible for driving the proposal forward.
3. Identify existing training centres and the opportunities that exist for establishing new facilities for the delivery of the proposed pedagogy.

# Appropriate Technology

- Using the simplest level of technology that can effectively achieve the intended purpose in a particular location.
- Engineering that pays particular attention to its social and environmental ramifications.
- Requiring fewer resources, easier to maintain, lower overall cost and minimal impact on the environment.
- Often used to describe simple technologies suitable for use in less developed areas.

# The Tasks

4. Tasks based on construction and “appropriate” engineering challenges that can form the basis of the “hands-on” exercises.

(e.g. wind turbine, floating structures, emergency shelters, temporary bridging, rammed earth construction, water harvesting, supply and treatment facilities, solar and wind powered vehicles).

# Learning Outcomes

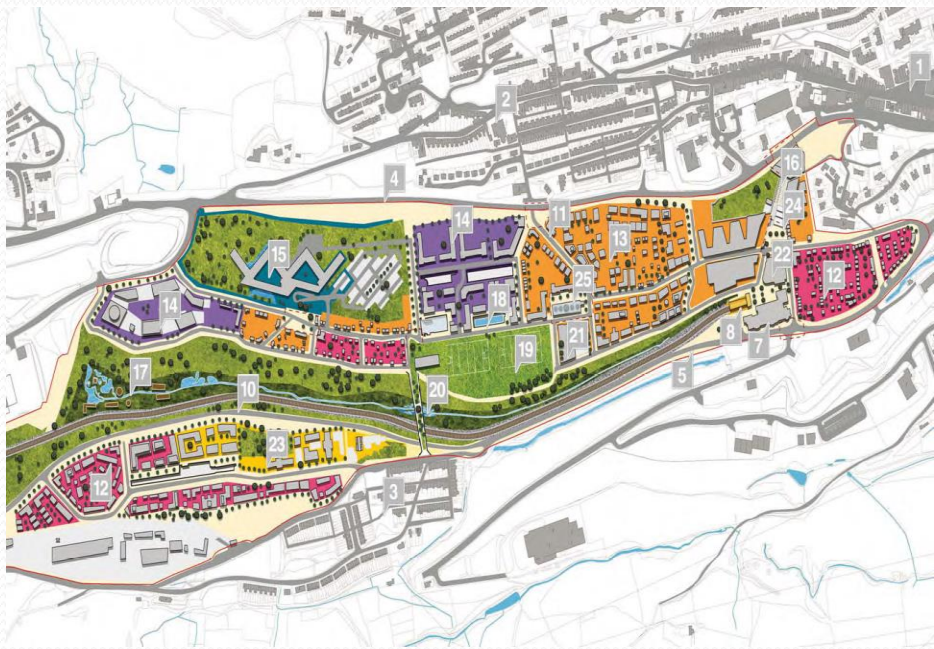
## 5. To include:

- Time and resource planning,
- Team working,
- Practical, organisational and communication skills,
- Logistics,
- Management of safety,
- Project management.



# The Idea – Location

6. Identify appropriate partners both for the development of training centres and the provision of individual projects.





# The Idea – A Network

- Residential Field Centres
- Further Education College Workshops
- Public and/or Private Training Centres
- Voluntary Organisations
  - EWB
  - EFOD
  - EaP

# The Idea – The Future

7. Implement one or more trial projects to validate the concept.

The Network that is proposed should make use of existing establishments and provide a focus for the development of at least one new training centre.

# Management and Admin

- A Management Board will govern the Network and their role will be to plan and organise its appropriate and efficient usage.
- Individual establishments will be responsible for the upkeep and sustainability of their own facilities.
- The Network is expected to function as a co-operative in which its strength lies in the sum of its parts.

# Any Questions?

