

Scotland's colleges - delivering skills for the energy, engineering and construction sectors

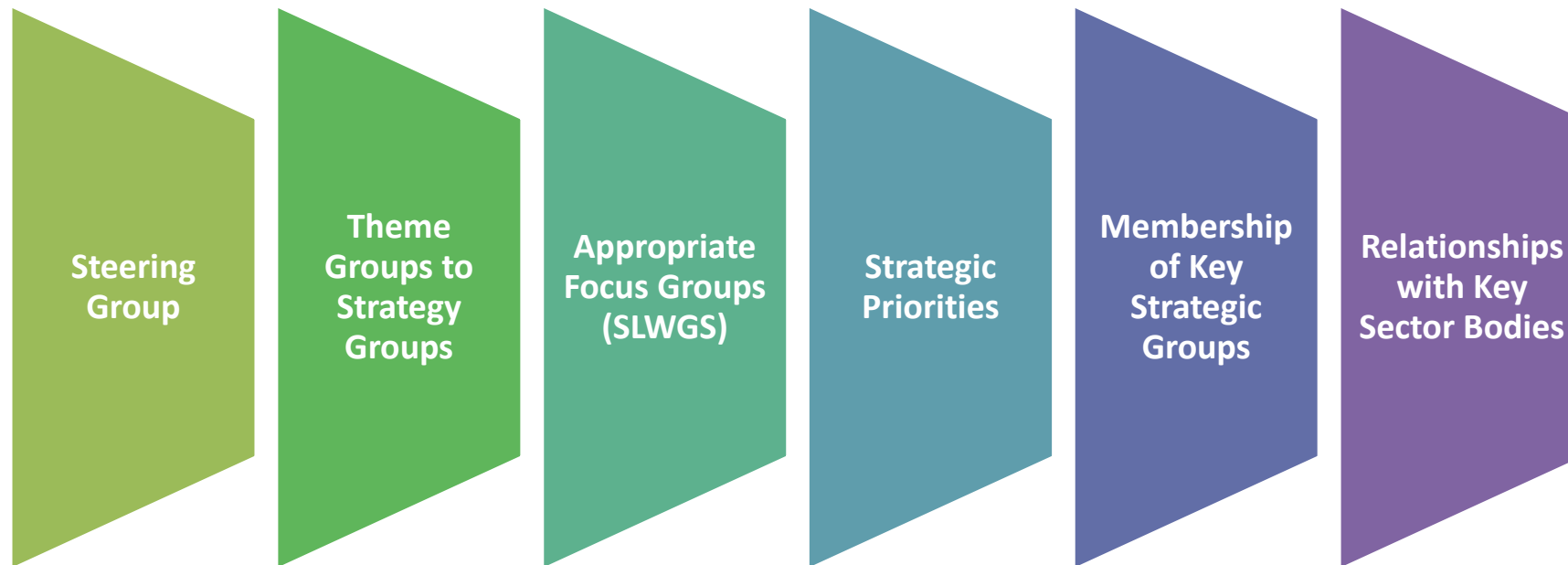


# CDN College EXPO 2018

## Work Based Learning Policy into Practice

<http://online.anyflip.com/fmiw/itdd/mobile/index.html>

## ESP a Strategic Approach





## Scottish Government

- Energy Strategy
- Energy Efficiency Scotland
- STEM Strategy
- Zero Waste Strategy

## Skills Investment Plans

- Energy
- Engineering
- Construction
- Chemical and Life Sciences
- Food and Drink
- Textiles

## Alignment with the Manufacturing Action Plan.

# Sector Strategy Groups



- **Engineering Strategy Group**
  - **Engineering Focus Groups:**
    - Advanced Manufacture Working Group
      - Subject Specialists
    - Oil & Gas
    - Automotive/Transport
    - Wider Manufacture
      - Food & Drink
      - Textiles
      - Chemical and Life Sciences
      - Construction (see below)
    - Marine & Maritime
    - Wind & Marine
    - STEM
- **Construction Strategy Group**
  - **Construction Focus Groups:**
    - Off-site Construction
    - SMART Metering
    - CITB SLWG
    - Building Services Engineering
    - STEM

# Strategic Action Plan Priorities



Influencing

Funding and Resources

Capacity and Capability in  
Support of Emerging  
Technologies

Curriculum and Learning and  
Teaching Development



## ESP's involvement in Key Groups

Engineering and Energy	Construction and Energy	STEM	Cross Cutting
<ul style="list-style-type: none"><li>• Energy Skills Action Group</li><li>• Offshore Wind Industry Group</li><li>• Engineering Skills Leadership Group</li><li>• Manufacturing Action Plan Skills Group</li><li>• National Manufacturing Institute for Scotland</li><li>• Oil &amp; Gas Decommissioning Group</li><li>• Offshore Wind Sector Deal - People &amp; Skills Working Group</li><li>• Food and Drink Skills Group</li></ul>	<ul style="list-style-type: none"><li>• Building Engineering Services Employer Skills Forum</li><li>• Energy Efficiency Scotland</li><li>• BIM Strategy Group</li><li>• Energy Savings Trust</li><li>• HES OPiT</li><li>• Homes for Scotland (City Deal)</li></ul>	<ul style="list-style-type: none"><li>• Scottish STEM Partnership Executive Group</li><li>• Idea 59</li><li>• STEM Strategy Group</li><li>• SSERC – CLPL Group</li></ul>	<ul style="list-style-type: none"><li>• CPG Skills Forum</li><li>• Energy Savings Trust</li><li>• Transport Scotland</li><li>• Zero Waste Scotland (SWITCH Executive Group)</li><li>• College Innovation Working Group</li></ul>

# Key Sector Engagement – Engagement with Sector Bodies



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SEMTA

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OPITO

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ECITB

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Decom North Sea

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NSAP/EUSKILL

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ZWS

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CITB

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SECTT

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BESA

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SNIPEF

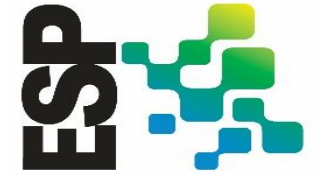
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SBF

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CECA





# Emerging Technologies and Opportunities

Engineering
Advanced Manufacture
Additive Manufacture
Automation
Wider Manufacture -Food and Drink etc
Business improvement, working with local employers
ULEV - infrastructure/manufacture, battery technology
Battery Storage

Construction
Offsite Manufacture
BIM
Land Surveying
Civil Engineering
Facilities Management
Gas Industry

Digital	
Digital Health	
SMART Cities	Study visit



## A Focus on Advanced Manufacturing (MAP)

### Focus for Workstream

- Sector attractiveness – talent pipeline, careers awareness, equalities
- Current and future demand for skills in advanced manufacturing
- Current supply of skills in advanced manufacturing
- Gap analysis
- Developing Capacity and Capability
- Fit for purpose advanced manufacturing ‘curriculum’ for NMIS
- Delivery:
  - Skills Academy
  - Work based learning
  - Digital access points
- Funding opportunities:
  - Upskilling the existing workforce
  - Transition Training
  - Foundation, Modern and Graduate Level Apprenticeships

## Capacity and Capability in Support of Advanced and Wider Manufacture



ESP is developing an extensive programme of staff CPD for management and delivery teams.

- Attendance at key conferences for college management teams
- Industrial visits for management and delivery teams
- Future technology industry training for delivery teams
- Collaborative skills development across colleges utilising existing centres of excellence
- Industrial placements for deliver teams

# Fit or Purpose Curriculum



## Apprenticeship Family

- Foundation Apprenticeships
- Modern Apprenticeships
- Graduate Apprenticeships
- Pre-Apprenticeships

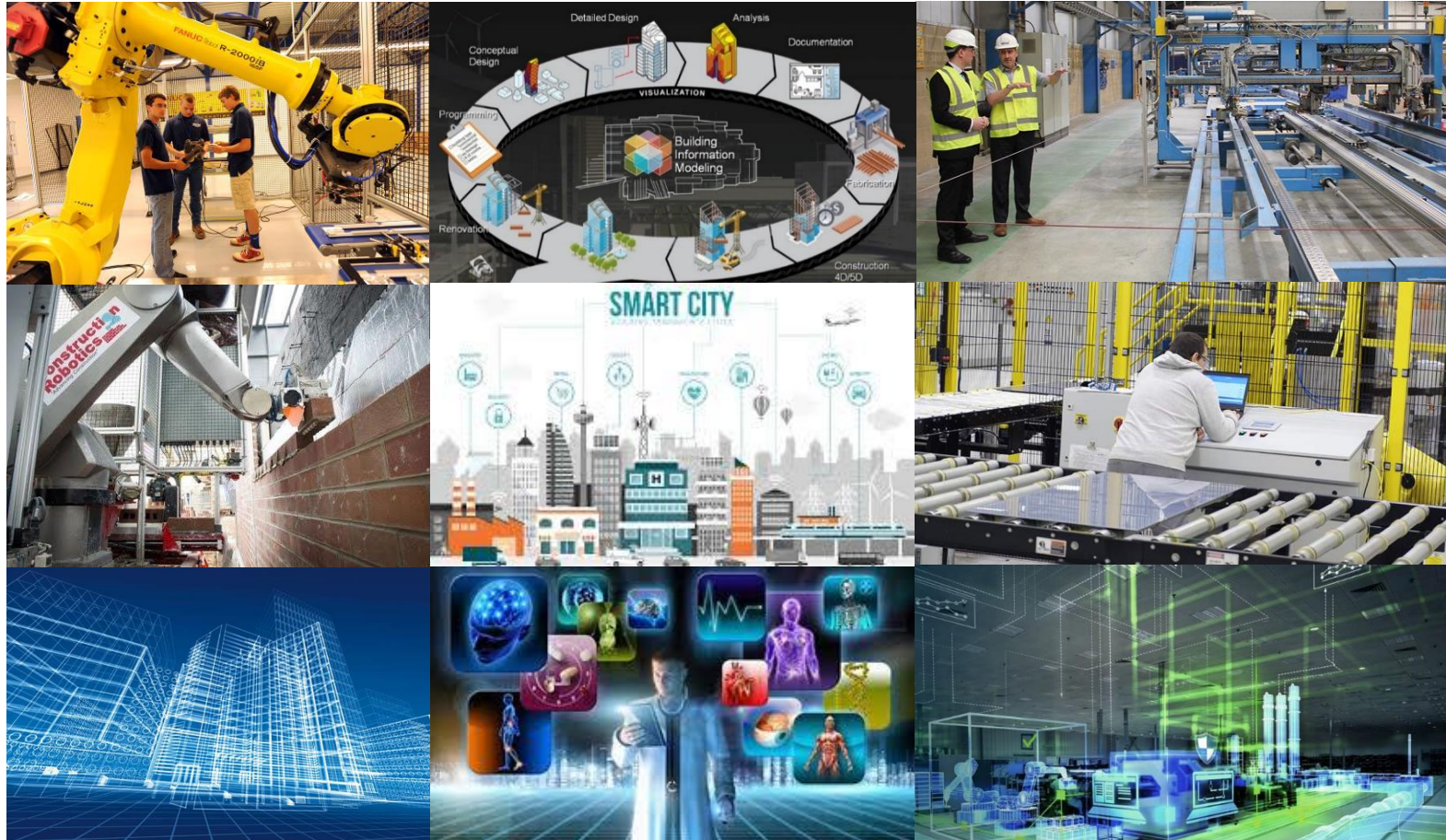
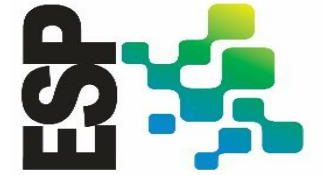
## Pipeline Programmes

- Full-time College Courses
- Work Readiness Enhancements
- Work placements

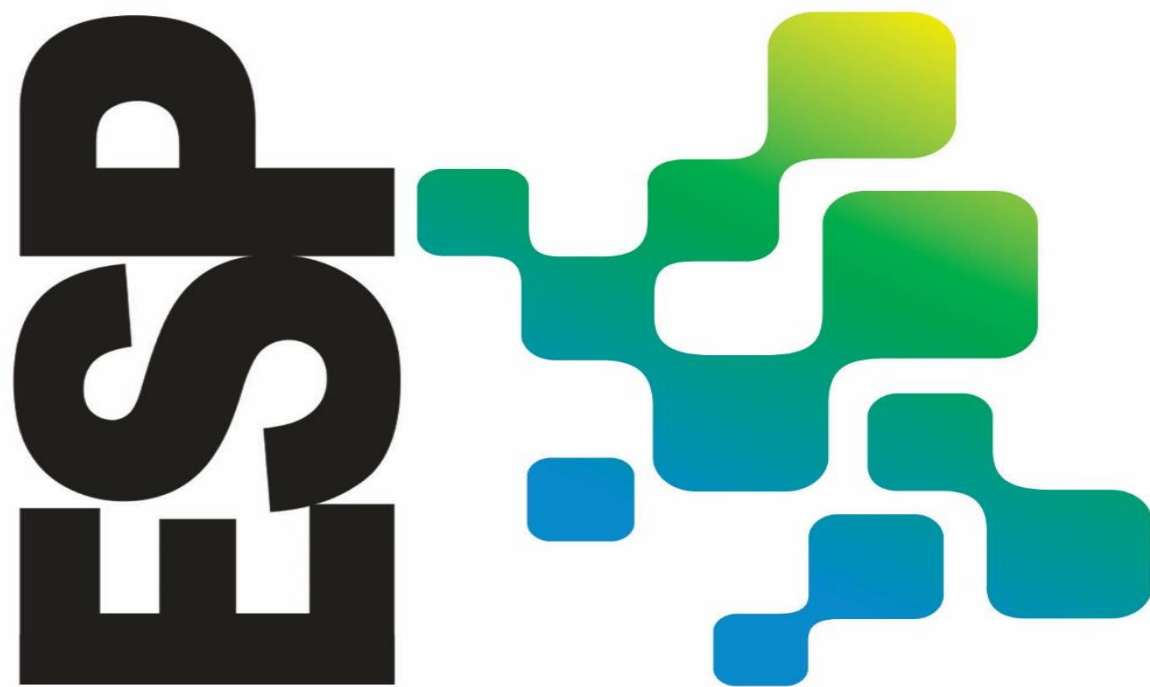
## Upskilling the Existing Workforce

## Transition Training

# Increasing requirement for cross-disciplinary working



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