



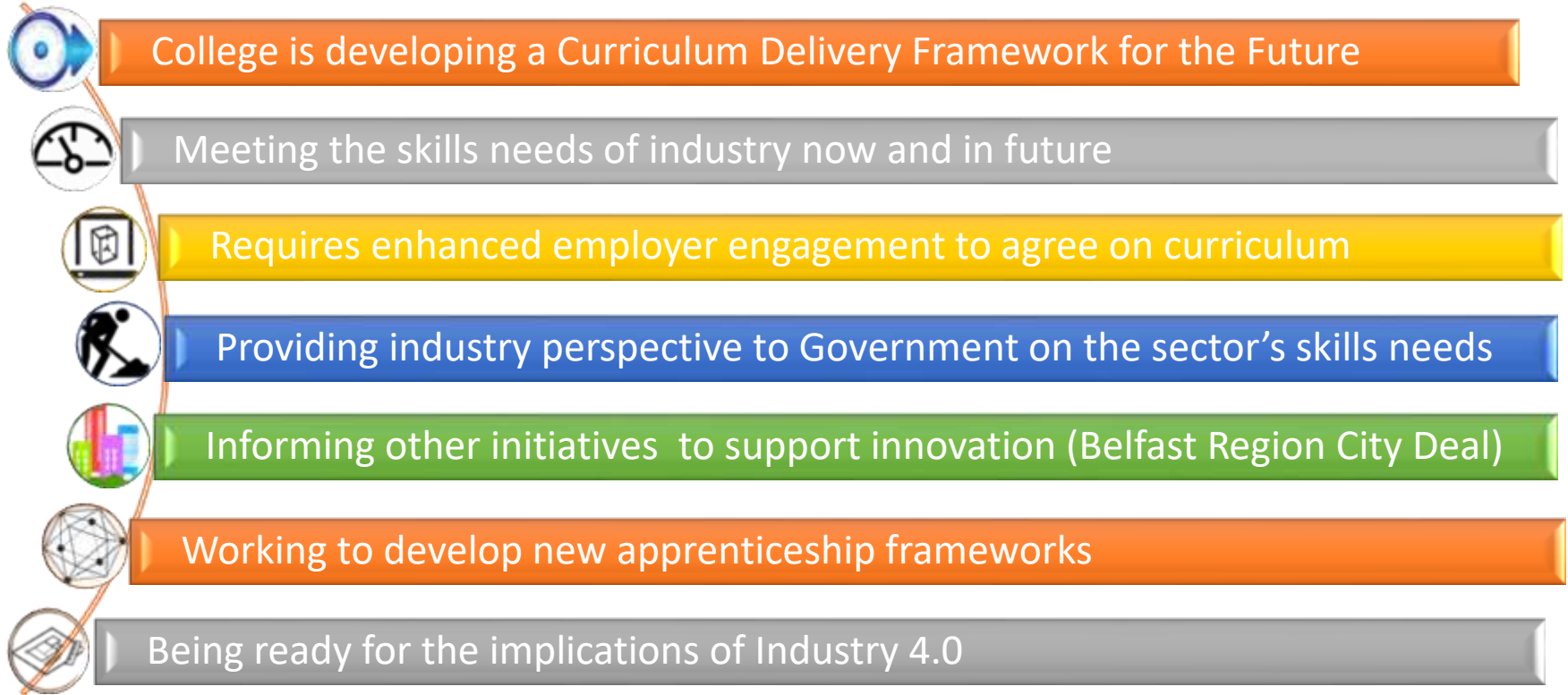
GenComm Partners' Meeting #8

**12th March 2019
Belfast City Hall**

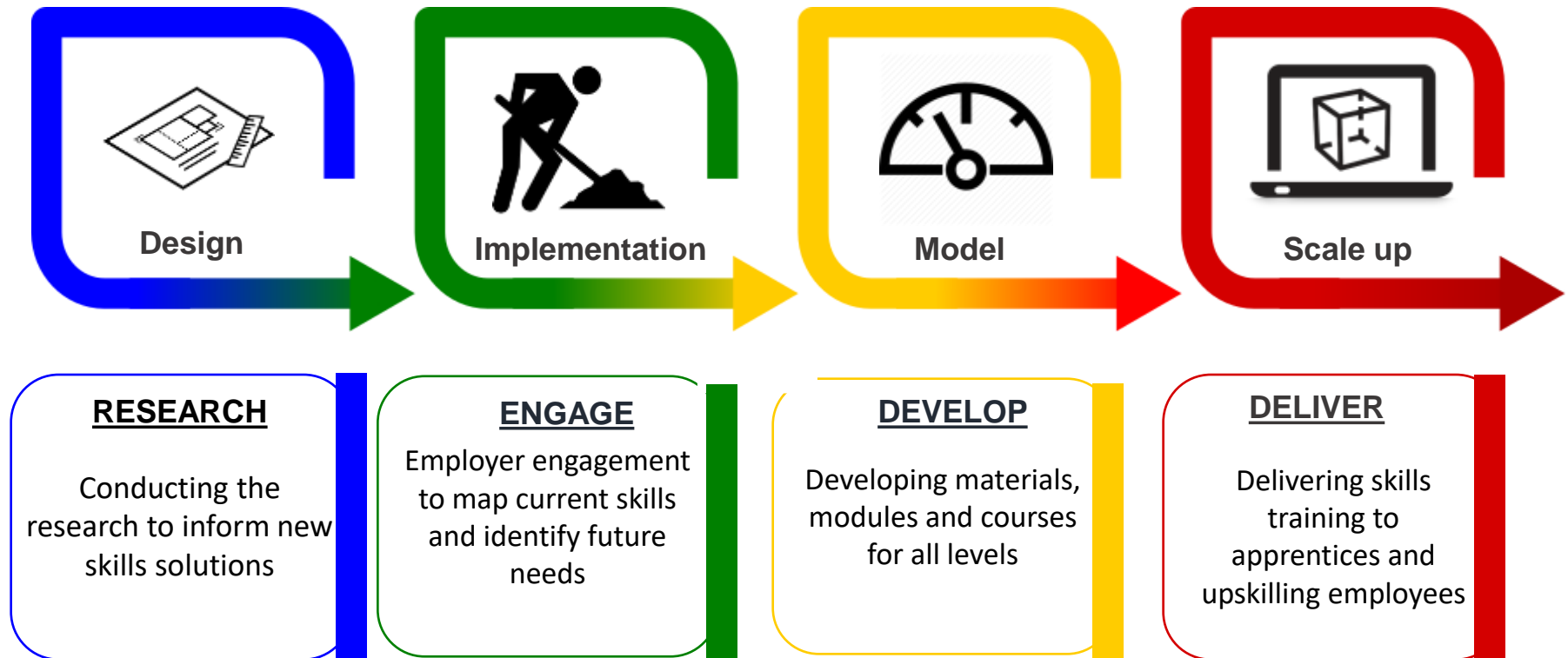
**Damian Duffy
Director of Development
Belfast Metropolitan College**

**Delivering the
skills for the new
technologies**

Skills Needs - Strategic Context



Renewables Skills Pipeline



Research Informs Skills Solutions



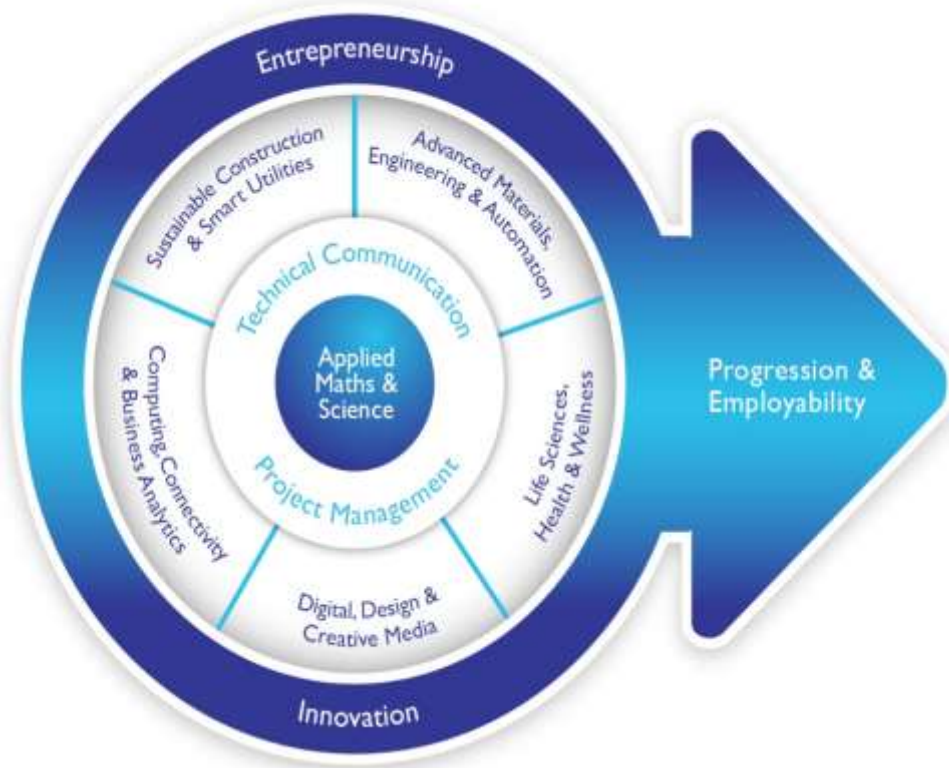
- To research and pilot projects to accelerate development & deployment of low-carbon technologies in line with European Energy technology plan;
- To test and validate the maturity of hydrogen technologies by implementing 3 pilot plants;
- To technically and financially validate the renewable H₂ value chain and adapt it to a decision support tool that leads NWE communities to develop sustainable, local and autonomous energy matrices;
- To establish a strong group of energy stakeholders devoted to, through the use of hydrogen

Employer Engagement



- *International Renewable Energy Agency forecasts jobs growth from 10.8 million in 2017 to 28 million by 2050 in clean energy jobs;*
- As we make a shift to a low carbon economy Government needs to engage with employers to make sure we have the appropriate skills for the future;
- Employers need to access quality training to enable them to upskill their existing workforce to support the roll out of renewable energy solutions;
- Need to make sure that employers collaborate with Colleges and Universities to help them develop curriculum and training solutions for the future career opportunities in renewables.

Develop Skills Solutions



- Cross cutting across curriculum disciplines.
- Develop hybrid engine training courses with Institute of Motor Industry (IMI)
- Develop hybrid engine training for Wrightbus.
- Strategic fit with College Digital ICT Hub.
- Developing specification for a Hydrogen/Hybrid Apprentice for the Future ???

New Occupations :

- Fuel Cell Engineers
- Hydrogen Plan Managers
- Hydrogen/Hybrid Installers
- Hydrogen Fuel Transporter

Delivering Skills Solutions



- New training opportunities for career progression launched to combat growing concerns over the lack of skilled professionals;
- Developing a Renewable Energy Expert Pathway (REEP) of programmes created in order to meet industry demands;
- REEP programmes will be produced by highly trained experts and consultants enabling participants to progress their careers in the renewable energy sector;
- The pathway programmes will build on Belfast Met's experience and commitment to working with its partners to promote best practice in Renewable Energy education;
- Building key partnerships with industry and the academic sector on projects such as GenComm is key to addressing the current skills gap and future skills needs in the renewable skills sector.

GenComm - Curriculum benefits

Level
3

- *L3 awards, certificates, diploma with IMI*
 - Hydrogen with Wright-bus
 - CNG/LNG
 - NVQ accreditation BMC In-house

Level
3 & 4

- Level 3 & 4 Award, Certificate and Diploma H2 Technician Courses
- Level 3 & 4 Award, Certificate and Diploma Electrolyser and Fuel cell courses
- Apprenticeship Solutions

Level
5

- **Specialised courses**
 - **Automotive and Material Handling Sectors Hydrogen Production and Handling**
 - **Micro Fuel Cells CHP**
 - **MicroCHP Fuel Cells based Generators**

