

Gathering21

Construction Innovations
for Future Generations

CITA

Keynote Speaker

PJ Rudden

Chair of Innovation and Digital Adoption

Department of Public Expenditure and Reform

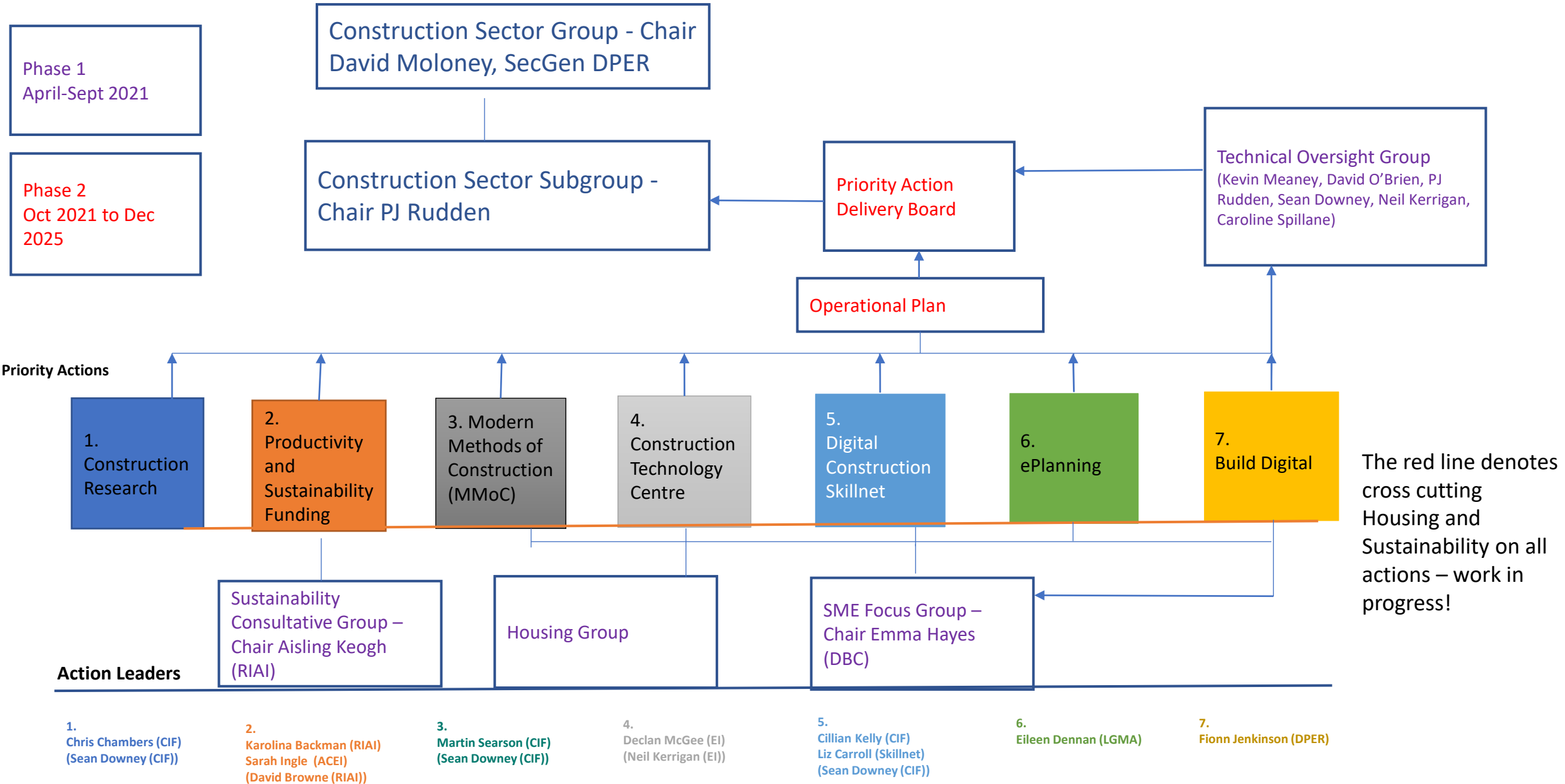




Progress update on CSG Innovation and Digital Adoption

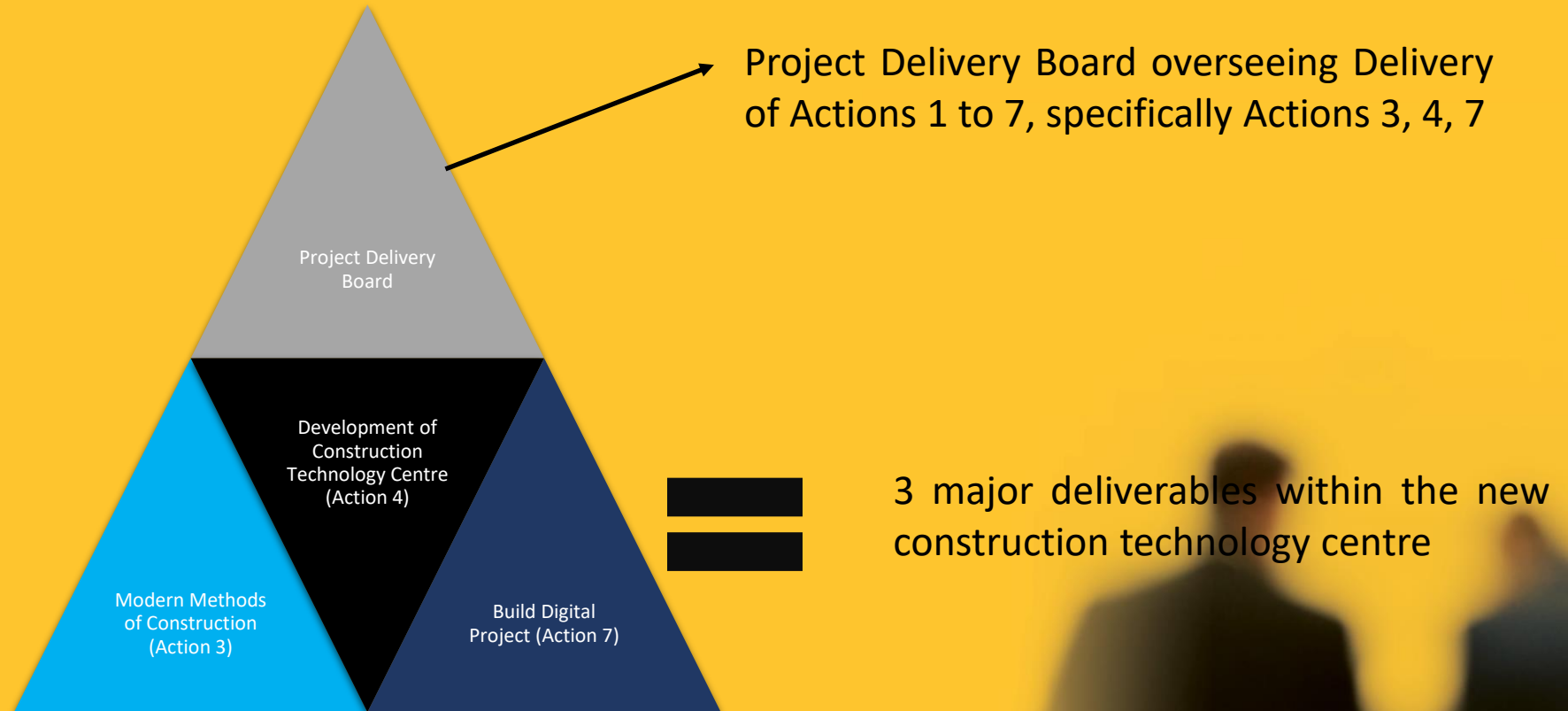
- 7 Priority Actions to be delivered
- Housing and Sustainability to be Cross-Cutting Actions.
- Digitalisation, Productivity and Sustainability are the three key project pillars.
- Steady progress over the past 12 months.
- Approx. 100 experts on 7 Action Teams and consultative groups
- Communication and Collaboration are key.

Project Ireland 2040 - CSG INNOVATION DIGITAL ADOPTION – PRIORITY ACTION DELIVERY (2021)



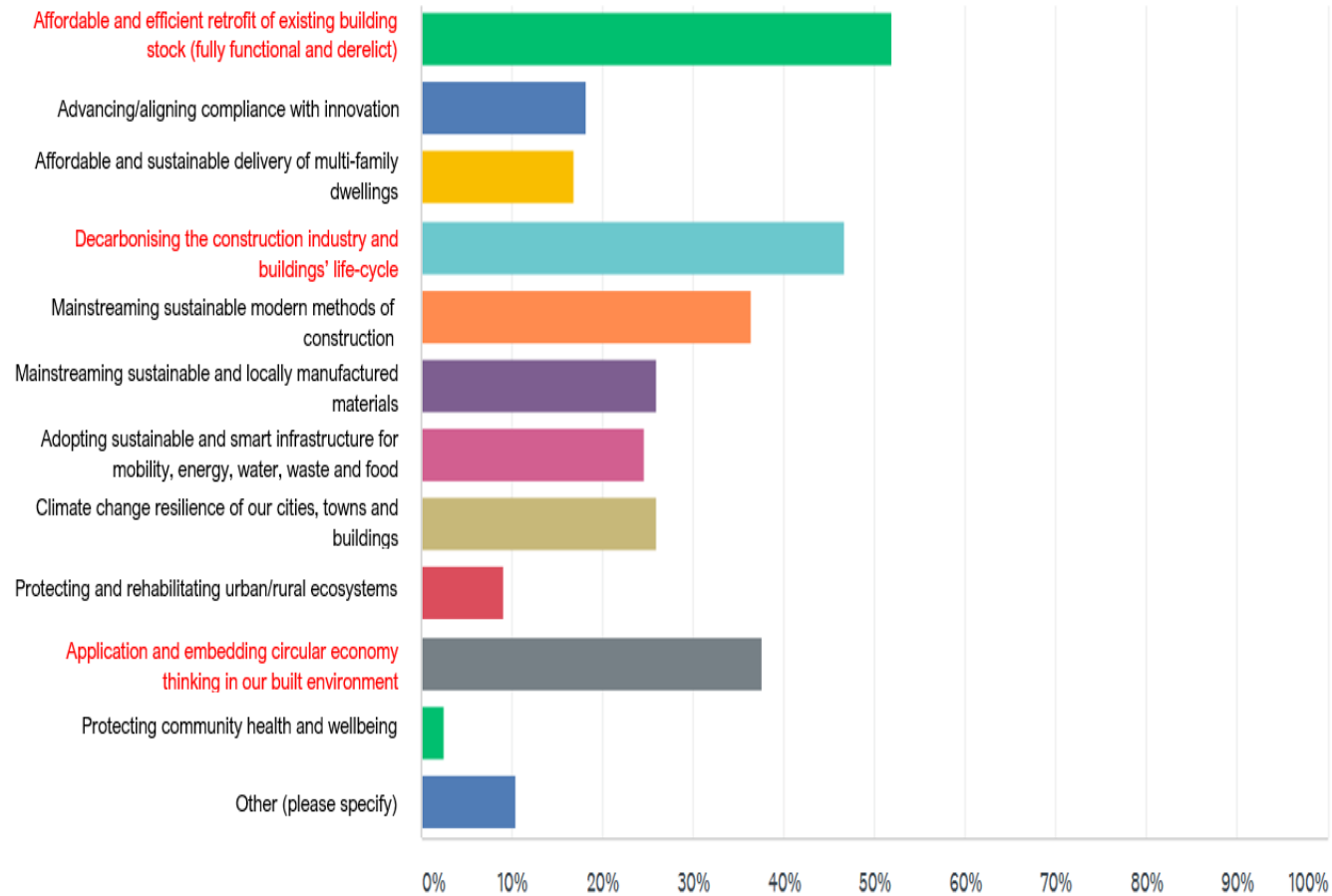


Innovation and Digital Adoption Project (7 priority actions) – Project Development Phase



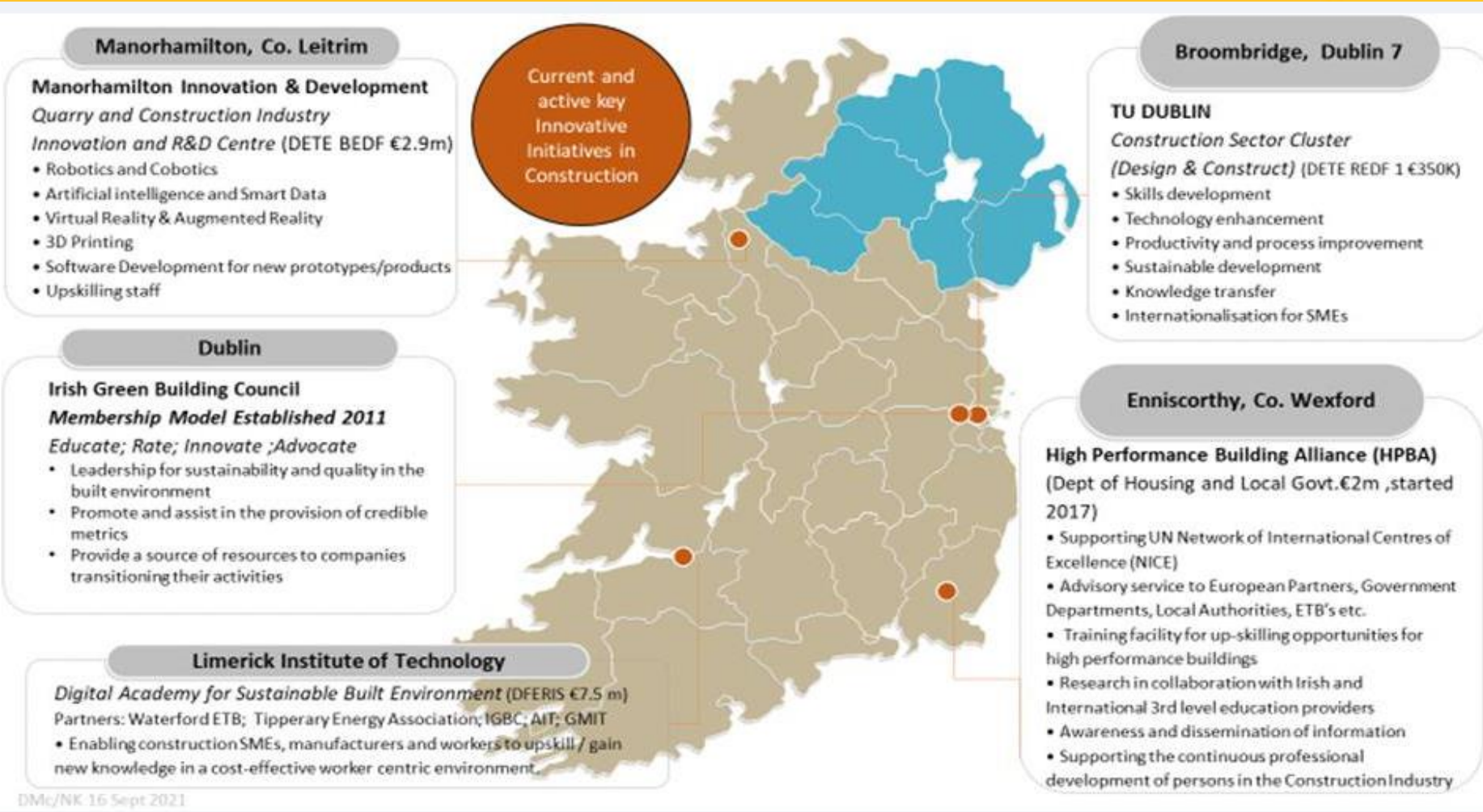
Typical Extract from CSG Sustainability Survey – April 2021

What are the three biggest challenges in regards to sustainability for the Irish Construction Sector which could benefit from digitalisation to deliver the best practice and achieve the ambition of Ireland 2040?



Other suggestions:

- Digital library of NSAI Accredited construction details for high performance buildings
- Automation and tracking of Built Infrastructure data and asset history and readily assimilate/utilize it
- The BIM processing capabilities need to improve, to move towards, 4D, 5D, 6D, 7D and on to 8D. At present, this is a constraint.
- Acceleration towards IoT as a solution requires the right Digital Fundamentals and Protocols in place
- Affordability of building regulation and fire certification requirements for buildings in historic areas
- Demonstrating long term value (in terms of profits and returns) of adopting and delivering a sustainable construction industry to investors and stakeholders





Next Steps

- 'Housing for All' will be a priority cross-cutting action, together with Sustainability.
- Impact on standards
 - Critical importance of standards and training – Definite gap on emerging technologies
 - Modern Methods of Construction (Modular, off-site construction, retrofitting)
 - Building Information Modelling – Recent Irish Annex Approved and published
 - Sustainability of building materials (circular economy, low-carbon cement, Cross Laminated Timber (CLT), insulation)
- CSG Sustainability Group commenced work in June 2021 - Cross cutting priority action making great strides.
- Build digital project about to be awarded by Department of Public Expenditure and Reform in October 2021 (2021 – 2025)



Next Steps (Continued)

- Design of Construction Technology Centre to advance in Autumn 2021 following Detailed Description of Needs (DDN) by EY Consultants for Enterprise Ireland – Virtual and Physical
- Digitalisation of planning permission application to be completed in 31 local authorities by end of 2022 by Local Government Management Agency (LGMA) – No more paper based planning applications!
- Strategic communications – Event planned for late Sept/ October 2021
- Need to see “Step change” in construction output in digitalisation, productivity and sustainability by 2030.