

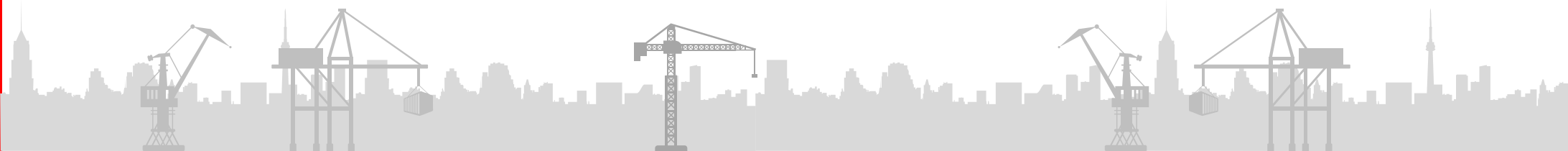
Thursday 18th July 2019

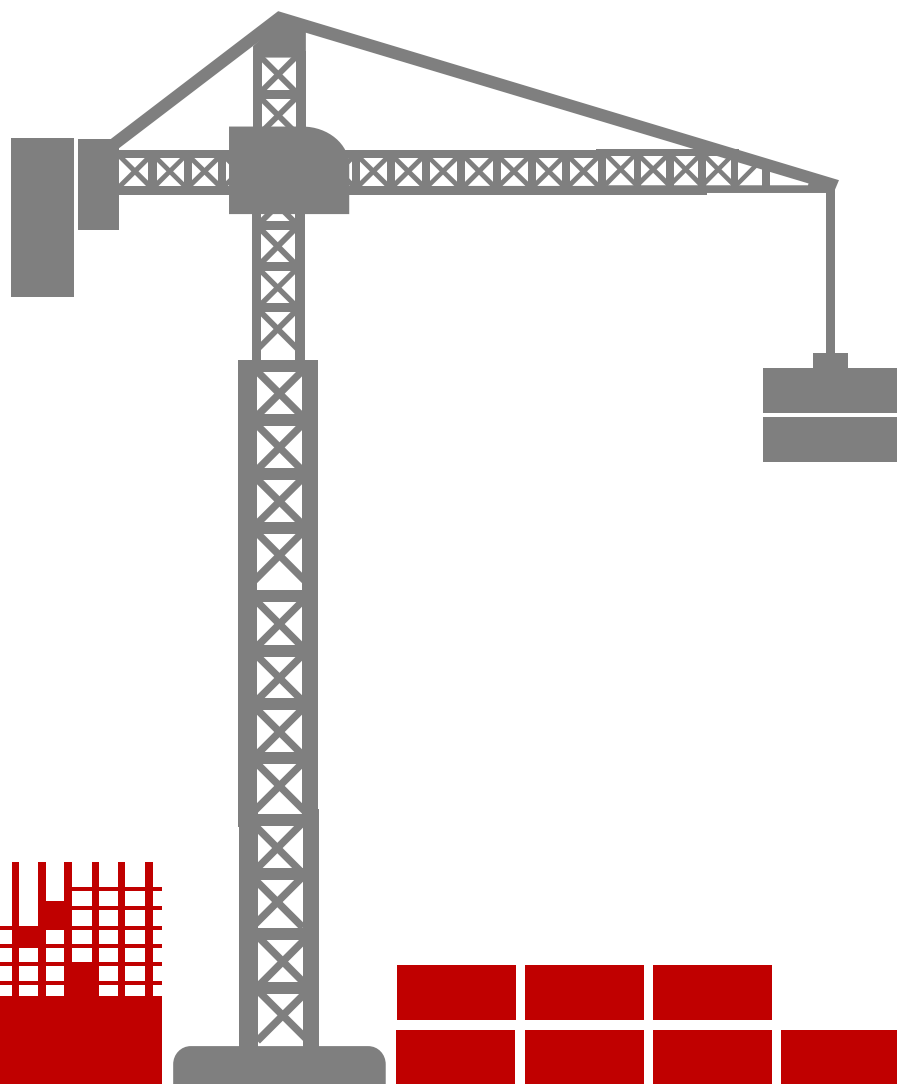


Construction 2050: building a construction ecosystem

Sue Arundale

Director, Technical and Environmental Affairs





Building an ecosystem

- 01** What do we mean by ecosystem?
- 02** From linear to circular
- 03** From value chain to ecosystem
- 04** From 2020 to 2050
- 05** Challenges
- 06** Outlook

ENTERPRISES

- of all sizes
- active in all fields of building and civil engineering



1905
1st meeting

27
Countries

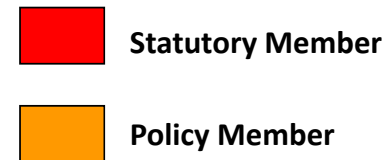
32
Federations



Member Federations

Denmark
Netherlands
Germany
France
Spain
Luxembourg
Bulgaria
Finland
Norway
Sweden
Ireland
Belgium
Portugal

Latvia
Czech Republic
Estonia
Romania
Slovenia
Croatia
Lithuania
Austria
Italy
Cyprus
Greece
Hungary
Slovakia
Turkey





Construction ecosystem

Is this something "green"?

Dictionary definition: *"a complex network or interconnected system"*

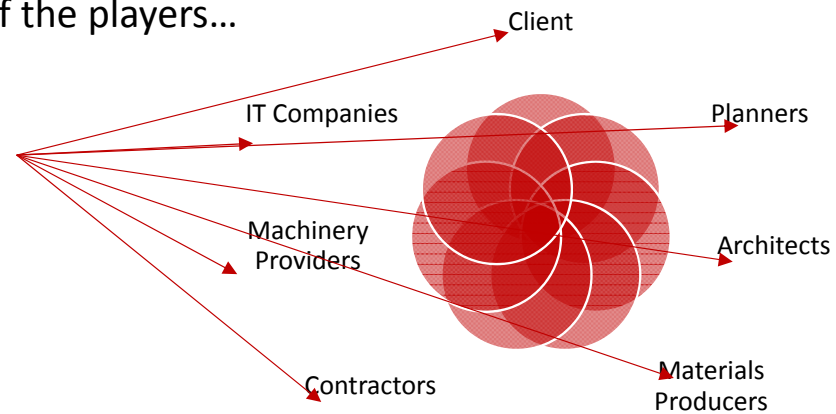
"... in which all players are co-dependent and their collaborative working method based on strong co-operation and transparency" Construction 2050: Building tomorrow's Europe today





Construction ecosystem

Only some of the players...



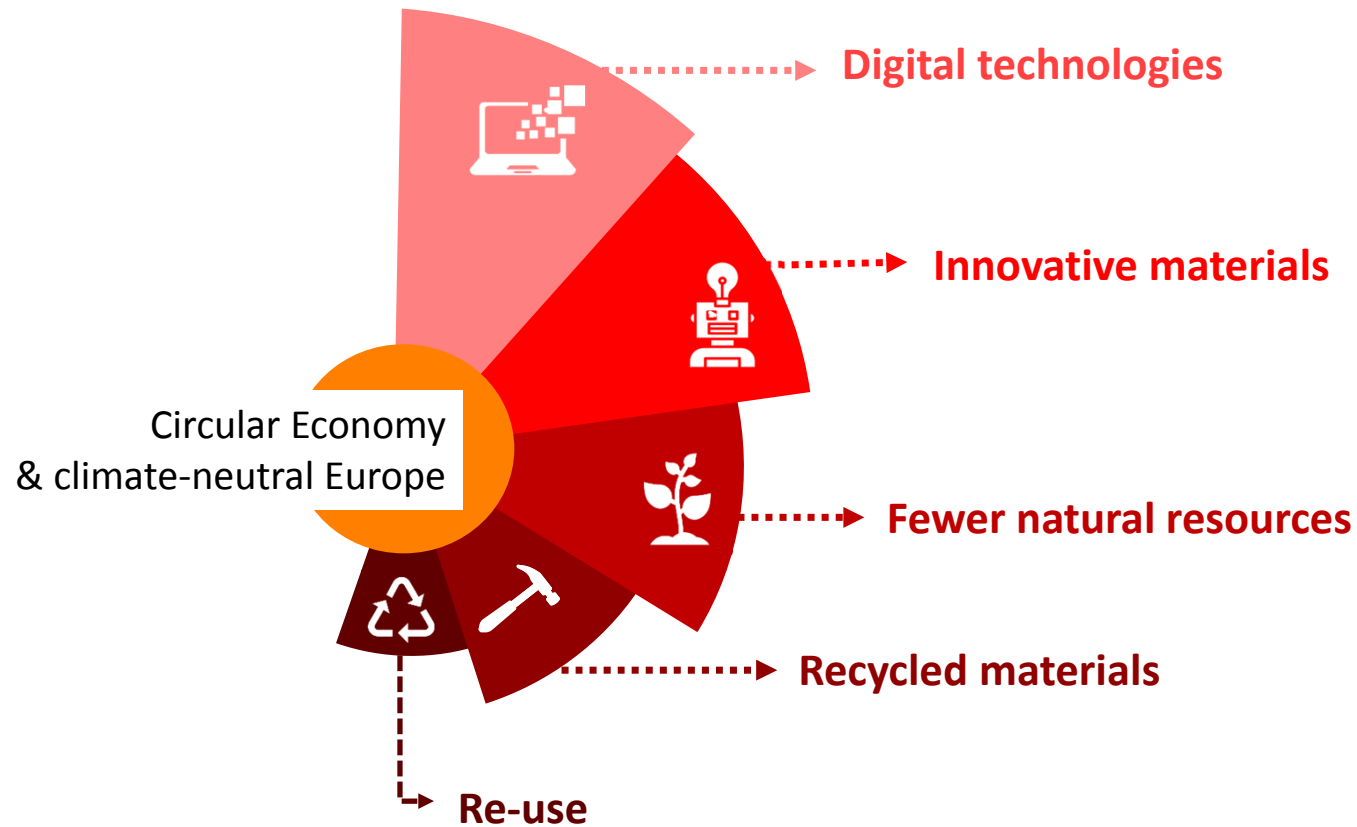
From Linear to Circular

Linear



Circular





How?



Value chain to ecosystem

The traditional "construction value chain" is changing

NEW MARKET ENTRANTS

We need to work together to make the **digital transformation** a reality

COLLABORATION

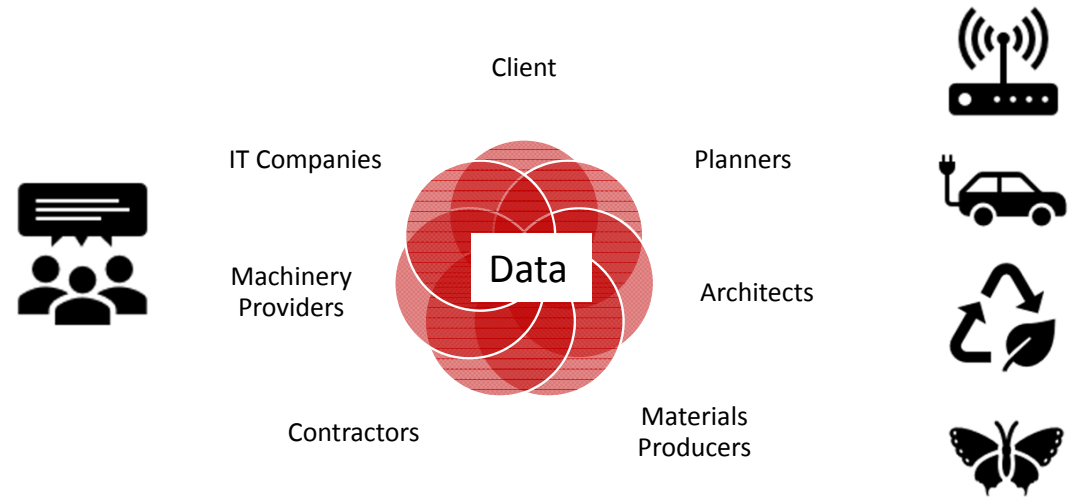
The business model is changing

- "Servitisation" and **industrialisation**





Construction ecosystem



From 2020 to 2050

We need to make sure that the future "Construction 2050: Building tomorrow's Europe today" initiative is fully embraced by all actors on the construction ecosystem, Member States and European institutions.



Built environment 2050

- Circular
- Sustainable buildings
- Holistic renovation
- Renewable energy solutions
- Smart appliances and management systems
- Resilient infrastructure
- Low carbon

Challenges

The current market for recycled materials and re-used products is weak

Quality, consistency and performance cannot be guaranteed

Standards will take years to develop

There is no price incentive to re-use or use recycled materials

Facilities are not available or not conveniently located



FIEC ACTION



2017
Making BIM a
Global
Success



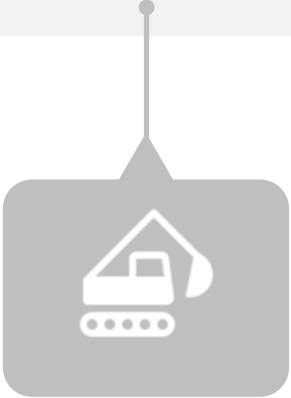
2019
Joint Declaration
on Circular
Economy



2016
FIEC position on
Circular Economy
Action Plan and Waste

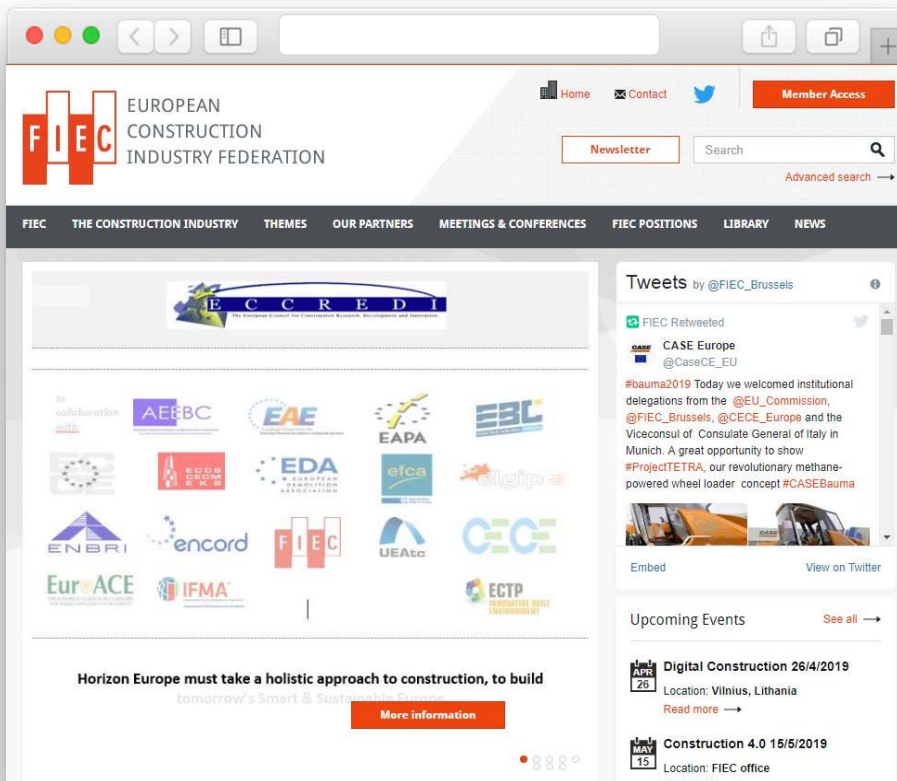


2018
Smarter Construction,
Stronger Economy,
Inclusive Society: The
European Construction
Industry Manifesto for
Digitalisation



2019
Construction
2050: Building
tomorrow's
Europe today

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Connect with FIEC on our multiple social media platforms.



Read our Manifesto for 2019 – 2024 here



CONSTRUCTION 4.0

COMPETITIVENESS

GROWTH

ENERGY NETWORKS

EMPLOYMENT

ENERGY EFFICIENCY

IT-NETWORKS

TRANSPORT INFRASTRUCTURE

SOCIAL INFRASTRUCTURE

BIM

WATER NETWORKS

ENVIRONMENT

CONSTRUCTION IS THE SOLUTION INDUSTRY

YOUTH EMPLOYMENT

RESOURCE EFFICIENCY

JOB

SKILLS TRAINING/EDUCATION

ENERGY PRODUCTION

STANDARDISATION

INFRASTRUCTURE

CLIMATE CHANGE
RECYCLING

INNOVATION

