

nima webinar

Supporting information management for a better future

The road to a circular economy and why digital product passports will be important



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**The road to a circular economy
and why digital product passports
will be important**

 Tuesday 27 May 2025  15:30 - 16:30 BST  Live webinar


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Construction Product Reforms Government Green paper

- Relates to regulation of construction products & Building Safety Act (2022) along with all major reports since the Grenfell Tower Fire – Hackitt, Review, Morrell/Day Report, Inquiry Phase 2 Report
- Throughout the Government Green Paper, **the importance of clear, accurate, accessible, up-to-date and unambiguous product information and marketing is consistently underscored as critical to the change required.**
- **Strong call to action for the industry to increase uptake of the CCPI** (*Section 6 Product Requirements a Regulatory Approach Based on Safety Risk - A whole page is given over to the CCPI at point 6.48*).



CCPI – Background – Here to help & build trust & confidence

- Developed through substantial industry consultation
- CCPI seeks to **raise standards in construction product information and marketing** & drive much needed positive **culture change** across the manufacture & supply sector. We aim ultimately to move the industry to a place where product information is clear, accessible, up-to-date, accurate, unambiguous & build back trust
- **Conformance with the CCPI helps to give greater confidence in product information. Not a guarantee, registration with the CCPI is about driving change and improvement.**
- **CCPI relates to all claims including safety, performance, environmental & sustainability**
- **Essential for preparation for Digital Product Passports**

11 Clause CCPI (Manufacturers version)

INFORMATION CREATION

- 1 Have in place a documented sign off process for Product Information.
- 2 Have in place a formal version control process for all Product Information.
- 3 Not use misleading or ambiguous wording, phrasing or imagery and must embrace the use of plain English to ensure accurate representation of Product Information and performance claims.

ASSOCIATED INFORMATION

- 8 Publish and make easily accessible, on their webpage clear Product Information, where applicable, on handling, installation, operation, maintenance, and disposal of Construction Products.
- 9 For guarantees and warranties, state what is covered, excluded, and required to comply with the terms. The guarantee and or warranty should be transparent, and in a format recognised by the relevant industry sector.

CORE INFORMATION

- 4 Provide valid and demonstrable documentation where claiming compliance to, or achievement of, and Certification, Classification, or Industry Standard.
- 5 Provide specific documentation when making any product performance claims outside of Certification, Classification or Industry Standard.
- 6 Make available on their website the descriptive and physical characteristics of the Construction Product.
- 7 Have a documented process ensuring all changes affecting Product Information resulting from changes to the Construction Product are identified and reflected in the revised Product Information.

SUPPORT & COMPETENCE

- 10 Ensure technical helpline contact details (telephone and/or email) are visible and accessible on their webpage.
- 11 Have in place a robust training programme (for new and existing personnel) to ensure that anyone conveying Product Information is competent to the level of knowledge required for their role..

CCPI helps with compliance & customer needs

- **Robust assessment process** which adds value for manufacturers & suppliers who register
- Register & undertake the **five-step assessment process** with independent CCPI assessors.
- CCPI adds value for all **companies of all sizes and manufacturing or supplying all types of construction products.**
- The CCPI assessment process **includes valuable mechanisms**, e.g. Leadership & Culture, Management Systems, & ongoing Registration elements such as Continuous Improvement & the Whistleblowers/Issues Portal
- **CCPI helps clients, contractors, product users & specifiers have more confidence in product information carrying the CCPI Assessed mark that conforms with the Code & that they are working with manufacturers & suppliers that are committed to working to high standards of the CCPI**

CCPI supports with readiness for DPP's

- Introduction of DPP's will present some hurdles for some companies
- **CCPI will help with readiness and right behaviours to deliver DPPs**
 - DPP's will need:
 - Data to be correct
 - Data to be interoperable
 - Unique identifier
 - Important to note that decisions still to be made on DPP system from manufacturers to EU Commissions DPP registry
 - DPP timeline working through legislation and implementation from end 2024 through to 2028 when obligation to deliver DPP is expected to come into force

DPP in the Built Environment

The road to a circular economy and why digital product passports will be important

Content



Circular Economy at Arup



CENTC Circular Economy in the Construction Sector



Data, Circular Economy and Value

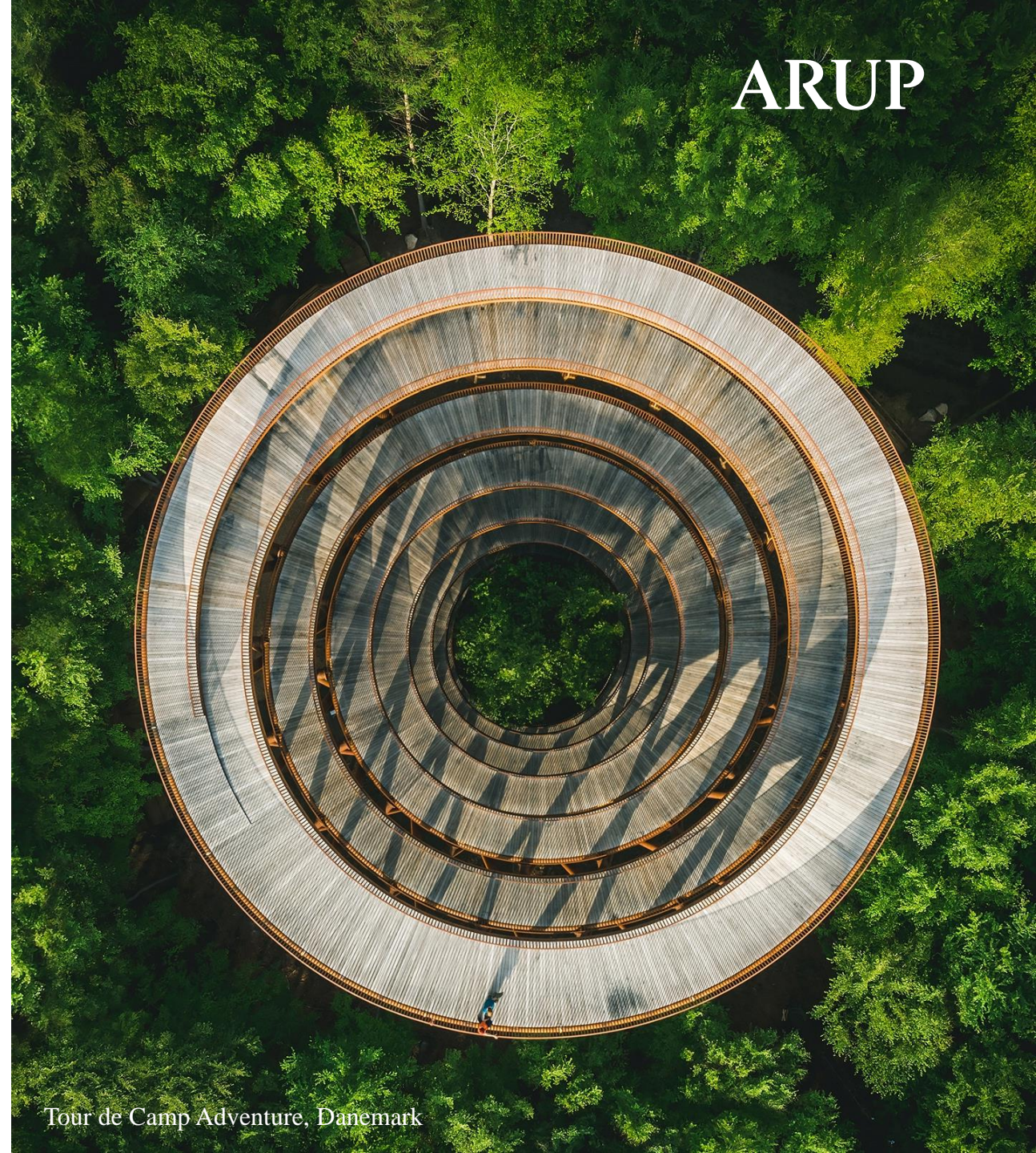


Case Study Projects

Our purpose

To shape a better world

Through our work we create safe, resilient, and regenerative places that enable current and future generations to thrive.



Tour de Camp Adventure, Denmark

Our firm

1946

Founded by Sir Ove Arup

£2.2bn

Turnover (2023/24)

18,000+

People

140

Disciplines

94

Offices

34

Countries

We guide, plan and design the future of the built environment. We are a global consultancy with advisory and technical expertise across more than 150 disciplines.



Our markets and services

Our broad expertise allows us to offer an extensive range of services valued by global markets.

Markets

Energy
Water
Resources
Rail
Highways, Roads
& Streets
Aviation
Property
Healthcare
Science
Industry
Technology
Cities

Services

Planning
Design
Advisory
Technical Specialist
Climate &
Sustainability
Digital

A better way

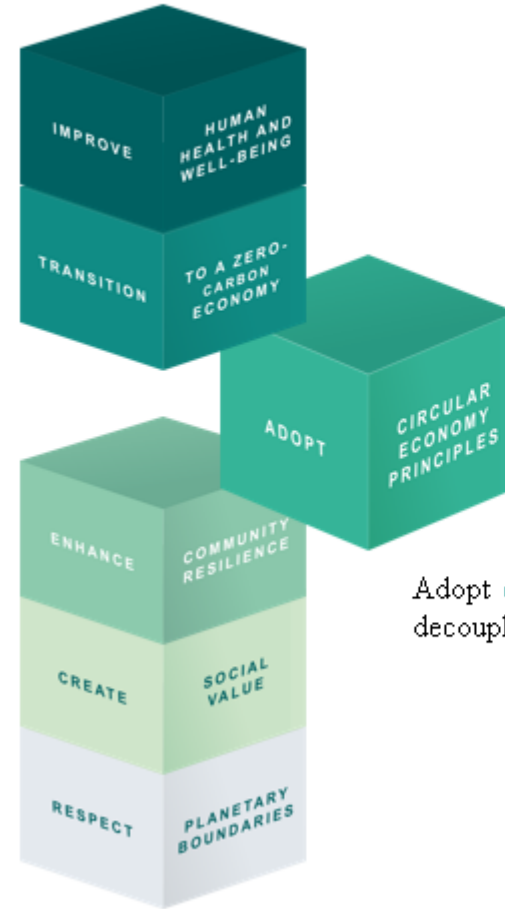
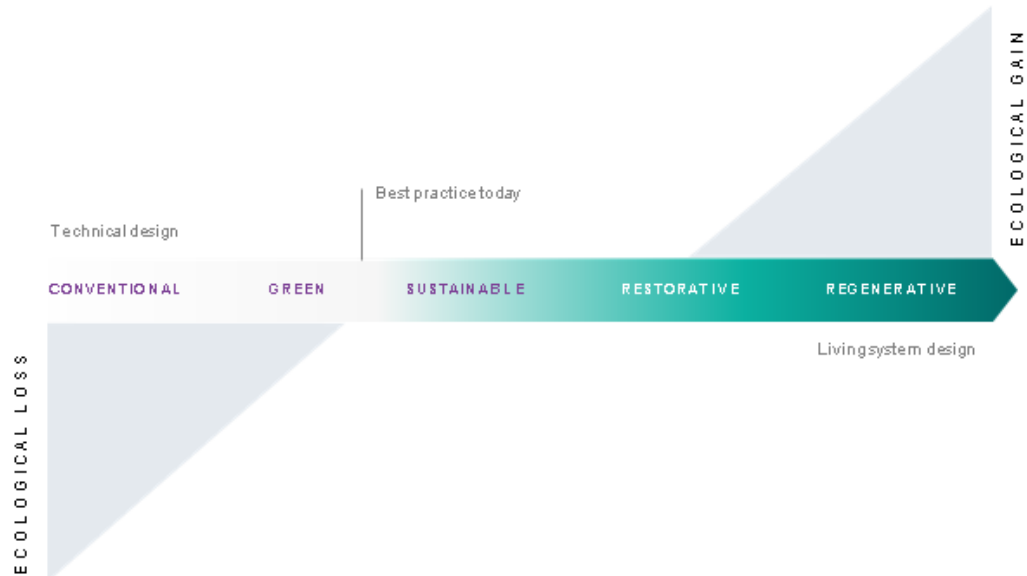
Shaping a sustainable future



A better way
Shaping a sustainable future



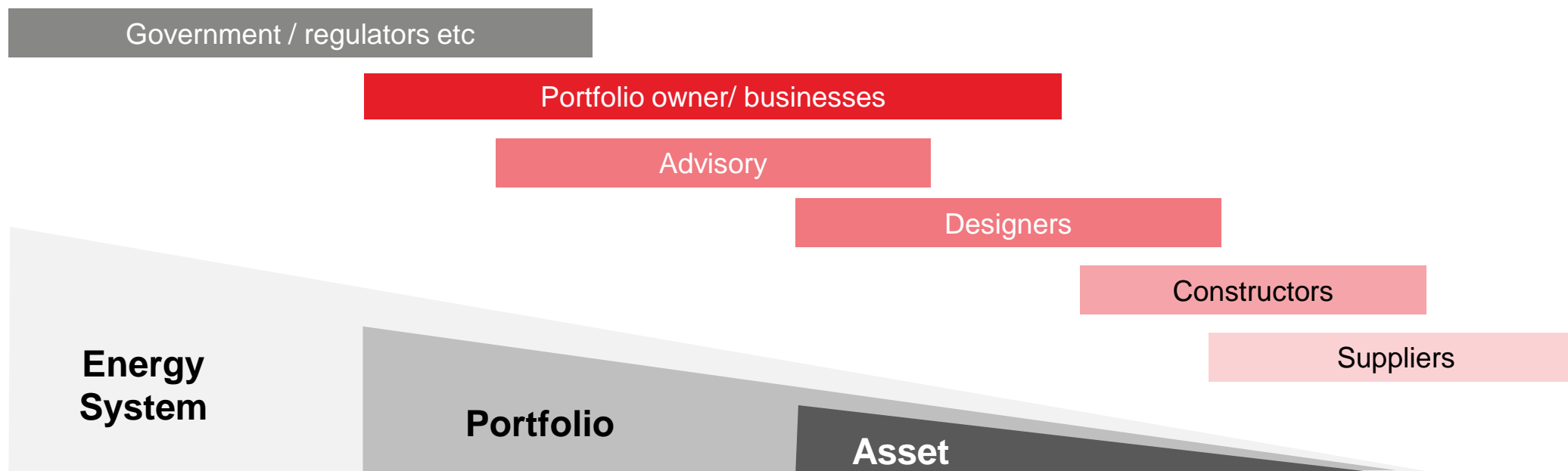
A framework for action



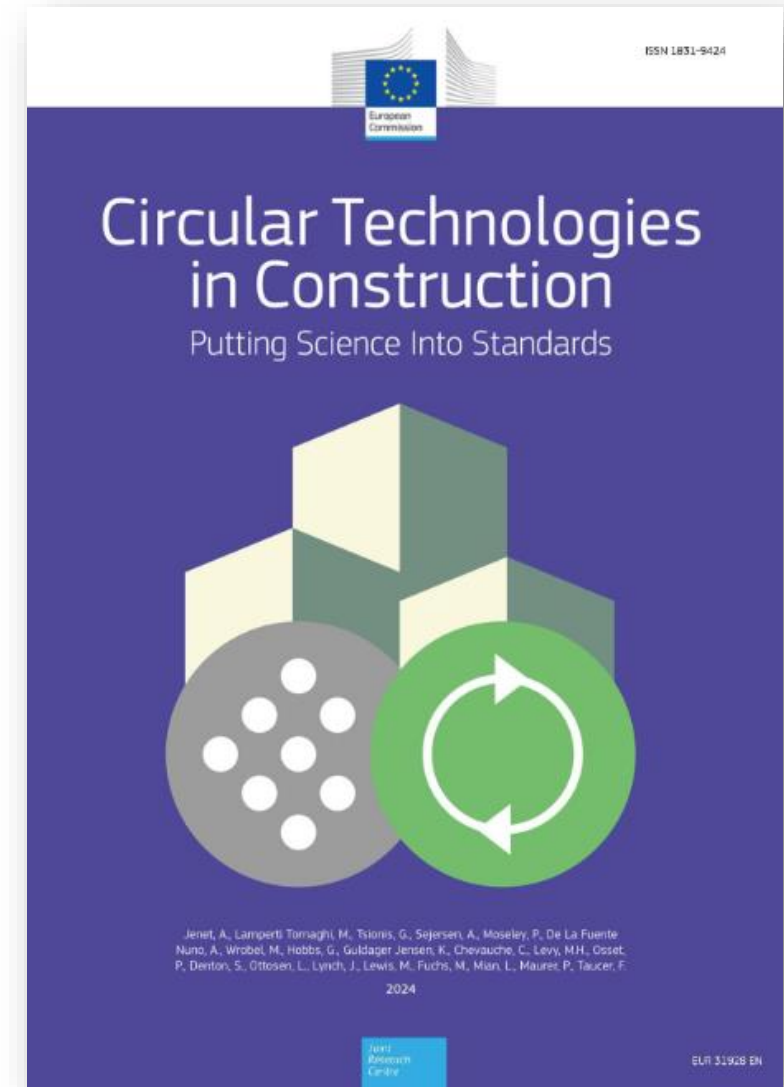
Adopt **circular economy** principles leading to decoupling of economic growth and consumption.

Systems-thinking, Data and Value

Thinking decarbonization, circular economy and business opportunity at every level of the system. Sharing of data throughout the system adds value to assets, components and materials along the supply chain



Circular Economy Standards Creation



CENTC/350/SC1

Working Groups



Circular
Economy in the
Construction
Sector

WG 1 - Framework, principles and definitions: Establishes the foundational concepts and guidelines for circularity.

WG 2 - Gap analysis, conclusions and recommendations: Identifies gaps in current practices and provides recommendations for improvement.

WG 3 - Chair Advisory Group (CAG): Offers strategic advice and oversight.

WG 4 - Circular related information in construction works: Focuses on the information needed to support circular practices.

WG 5 - Circularity assessment: Develops methods to evaluate the circularity of construction projects.

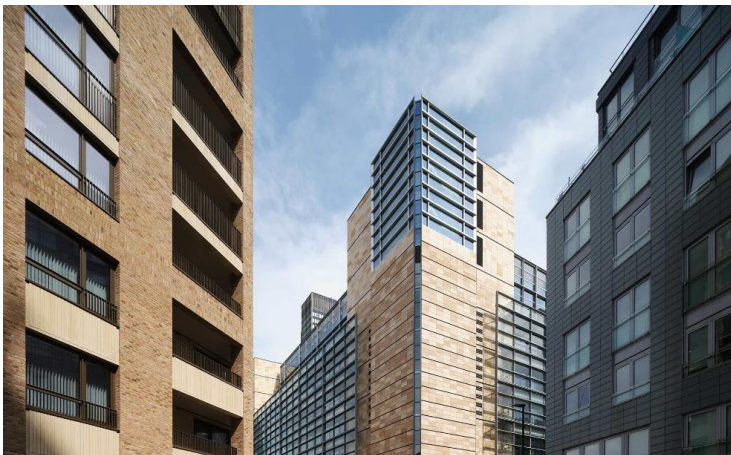
WG 6 - Reuse of construction products: Promotes the reuse of materials and components.

WG 7 - Circular design for the construction sector: Provides guidelines for designing buildings with circularity in mind.

WG 8 - Pre-demolition and pre-redevelopment audits and evaluation: Establishes procedures for assessing materials before demolition to maximize reuse

Selected Project Examples

Data enabling Circularity



One Triton Square, British Land

Refurbishment and reuse of a building resulting in 40,000 tonnes carbon reduction, 43% cost saving and 100% waste diversion during soft strip and demolition. This was achieved using original building construction drawings and data



ADPT Futur2K

In a co-creative process, Arup has developed a modular, circular building system with Futur2K. With open-use floor plans, ADPT offers maximum flexibility. In addition to the option of buying the building modules or components, customers will also be able to pay for their use in the future. The project is pan European



Here East , with Laing O' Rourke

Designed to be flexible with future use in mind, Here East is Europe's most advanced creative and digital hub of commercial, retail social, media and education space. A shared 3D BIM environment and detailed assessment of the building structure allowed a significant increase in space and maximized reuse of the existing structure.



Contact

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ARUP



Inspiring. Influencing. Connecting. Supporting. Transforming.

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