

**Special project (publication and website)**

**Construction and circular economy**

**An overview from the DDR  
(demolition, decontamination and recycling) perspective**

1. Institutional presentation
2. Introduction to circular economy
  - 2.1. What is the difference between linear and circular economy?
  - 2.2. A new concept or a new name?
  - 2.3. Recycling or circular economy?
3. The institutional framework for circular economy
  - 3.1. EU circular economy package 2015 and results
  - 3.2. The EU Green Deal and circular economy action plan 2020
  - 3.3. UN sustainable development goals 2030
  - 3.4. What is the connection between circular economy and the UN 2030 agenda for sustainable development?
4. EU regulatory framework for circular economy in construction activities
  - 4.1. Waste framework directive
  - 4.2. Landfill directive
  - 4.3. Waste management hierarchy
  - 4.4. Environmental footprint (water, CO2, transport, energy, ...) of the construction activities
  - 4.5. Lifetime of construction products
  - 4.6. The issue of hazardous substances in construction
5. Construction and circular economy
  - 5.1. Construction activities or sector?
  - 5.2. How important are the construction activities for circular economy?
  - 5.3. Why circular economy was almost stopped in the XX century for the construction activities?
  - 5.4. What are the challenges and opportunities for circular economy in the construction activities?
  - 5.5. Other aspects (economic, social and environmental) related with circular economy and construction

6. EU tools for circular economy in construction
  - 6.1. Construction and demolition waste management protocol
  - 6.2. Guidelines for the waste audits before demolition and renovation works of buildings
  - 6.3. Principles for building design
  - 6.4. Building sustainability performance, Level(s)
7. Demolition and circular economy: enabling change and development
  - 7.1. A transformation process: recovering space and materials
  - 7.2. Types of demolition: partial and complete
  - 7.3. Is demolition always selective?
  - 7.4. Why is so difficult to reuse construction products and when to stop the select process?
  - 7.5. The key elements of the demolition project: technical, environmental, health and safety
  - 7.6. Basic steps of the demolition project
  - 7.7. How to control the waste flows and prevent bad practices with demolition or waste management?
8. Decontamination and circular economy: the issue of hazardous substances in construction
  - 8.1. Asbestos, just the beginning
  - 8.2. Silica dust
  - 8.3. Other carcinogens in construction activities
  - 8.4. Heavy metals in construction
  - 8.5. Persistent organic pollutants (POPs) in construction: PCB, HBCD, ...
  - 8.6. Radioactive waste in construction and demolition
  - 8.7. Basic steps of the decontamination project
9. Recycling and circular economy: the opportunity for a new life
  - 9.1. How different is the waste produced in construction, renovation and demolition?
  - 9.2. Who should organize, and when, the recycling operations?
  - 9.3. Is there any problem with downcycling?
  - 9.4. What is the difference between a sorting and a recycling operation?
  - 9.5. Advantages and disadvantages of on-site and off-site recycling
  - 9.6. When does waste become again a material or product?
  - 9.7. What is needed to increase the recycling rates?
10. Projects related with circular economy and construction
  - 10.1. Research, demonstration, training, or dissemination
  - 10.2. List of projects: page with name, goals, timeline, deliverables and contact information.
11. Construction products
  - 11.1. Materials, products or systems?
  - 11.2. List of products: page with name, application of the circular economy, demonstration project or research initiative

12. The view of the construction stakeholders

12.1. Construction 2050 Alliance

12.2. One dedicated page for each European organization: FIEC, EBC, CPE, CECE,...

13. Working groups and networks

13.1. European and international working groups

13.1.1. One dedicated page for each working group: name, participants, scope of work, deliverables and contact information

13.2. National working groups

13.2.1. One dedicated page for each working group: name, participants, scope of work, deliverables and contact information

14. Platforms and special websites

14.1. European Circular Economy Stakeholder Platform

14.2. One dedicated page for each platform (DRIDS, iVestigo, ...): name, background, goals or services and contact information

15. Circular economy and construction in Europe

15.1. Two dedicated pages for each country: government initiatives, industry groups, specific regulations, actions of the DDR association,...