

# Towards a Circular Economy of Construction & Demolition Waste Recycling: Sensor Platform for Inline Quality Inspection

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# C&DW Recycling: Starting from Our Childhood

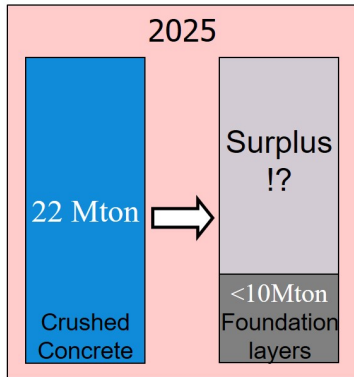
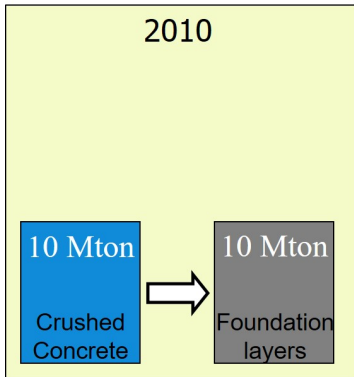


Credit: <https://teachingthem.com/2013/07/06/solid-foundation-obj-lesson/>

# C&DW Recycling: Starting from Our Childhood



# Dilemma of C&DW Recycling



Credit: *Source: Scenario Study Dutch Government*

# Dilemma of C&DW Recycling

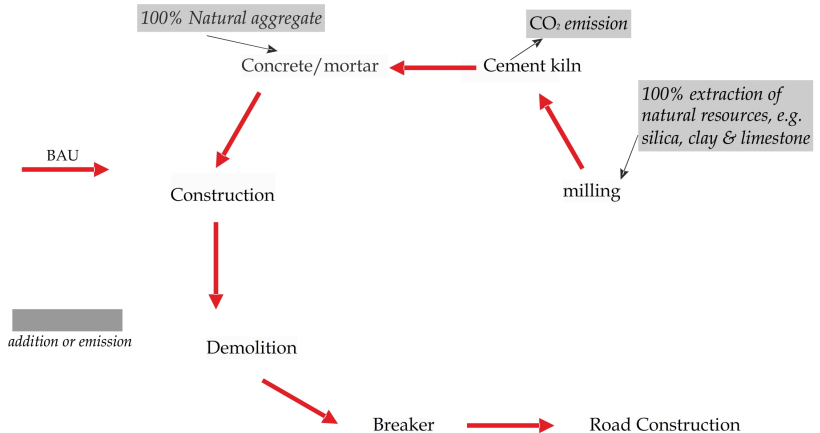


What is in there,  
and how much?



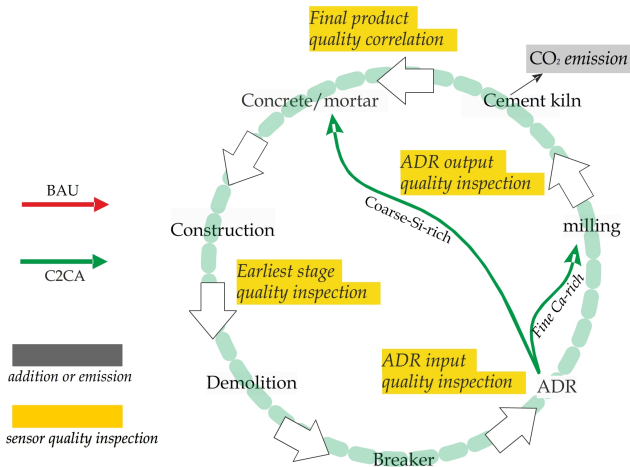
# From linear to circular economy

- Business-as-Usual.

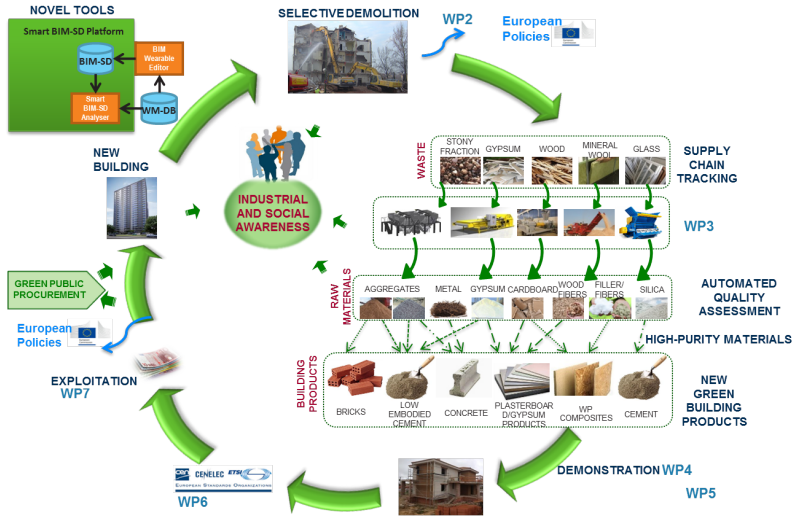


# From linear to circular economy

- Closed-loop upcycling: Concrete 2 Cement & Clean Aggregate



# Upscale The Recyclable Material Streams of C&DW





# Sensor Platform: Laser-Induced Breakdown Spectroscopy



• Credit: <http://quatr.us/chemistry/reactions/combustion/doing/fire.htm>

# Sensor Platform: Laser-Induced Breakdown Spectroscopy

