



WELCOME

Corponet Kennisbite

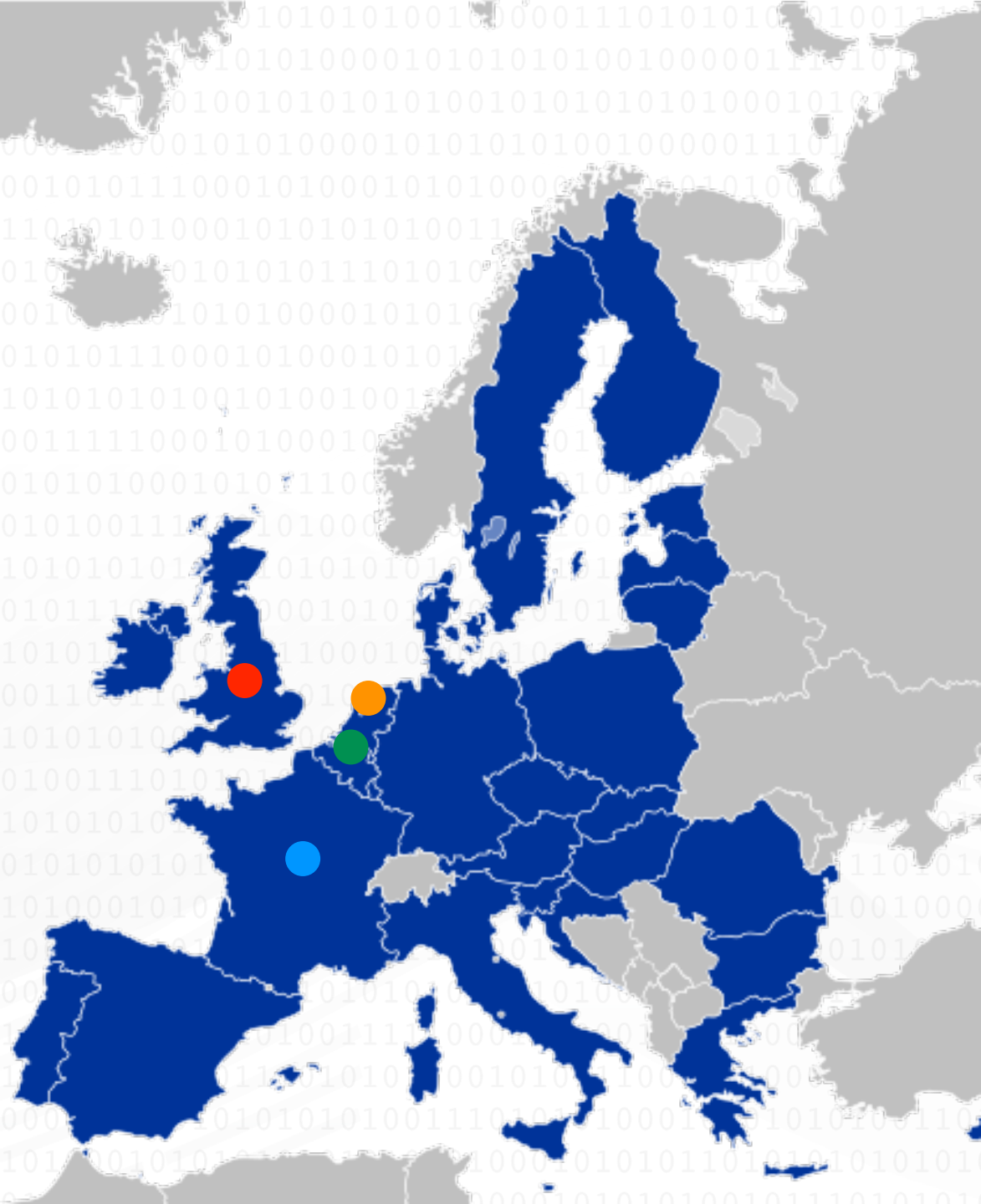
Ir. B.Arch. Sultan Cetin-Ozturk
PhD Researcher in Housing Management

s.cetin-ozturk@tudelft.nl / 0615912472

<https://www.linkedin.com/in/sultancetin/>

Three main outputs of the project:

1. Circular building strategies tested in demonstration exemplars,
2. Guidelines for a circular procurement strategy for social housing organizations,
3. Material exchange platforms to enable circular flows of materials and building components in the social rented sector.



Who is here with us today?

Circular Housing 4.0



Image by Murray Art

What would you do?



Image by Crawford Jolly

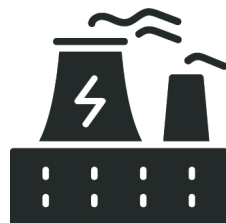


Images by Unsplash

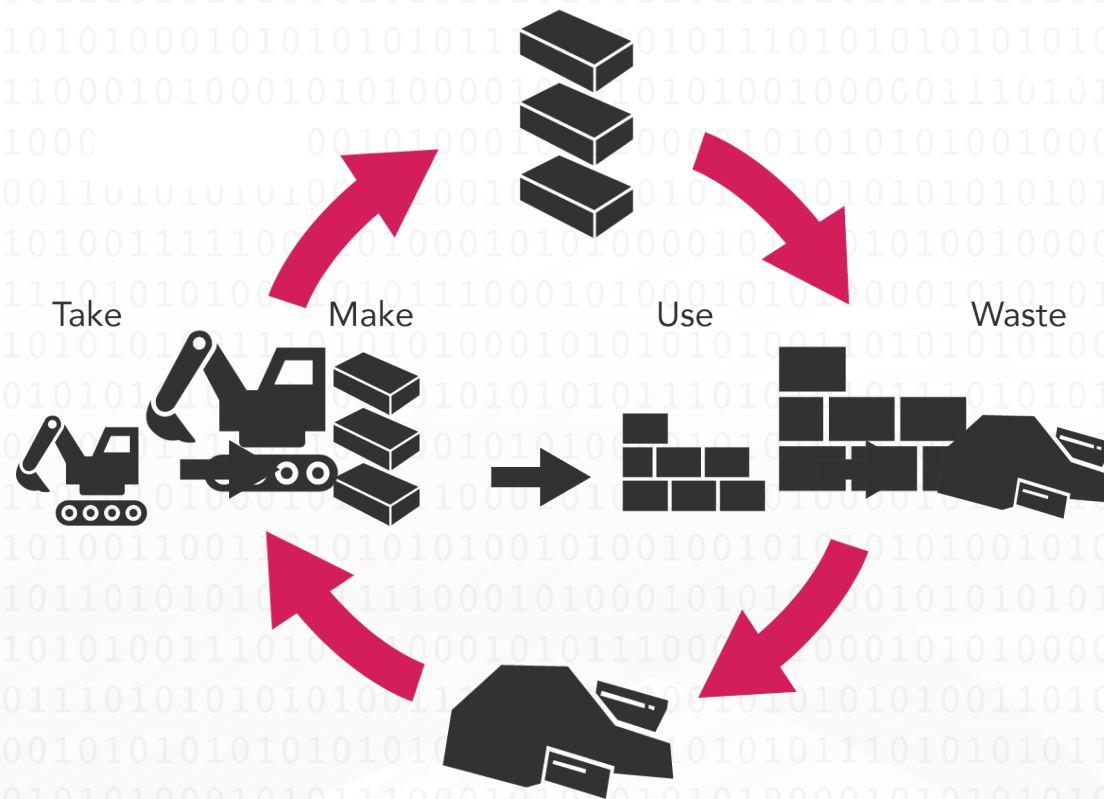
30-50%



1/3



1/3

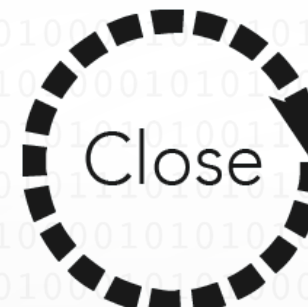




Use fewer resources



Extend useful time



Recycle

Regenerate



Digitalise



Social housing



EU



NL

Source: (Pittini et al., 2019)

1. Scale
2. Professional portfolio man.
3. Sustainability
4. Economic pressure
5. Societal impact

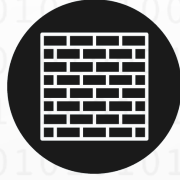
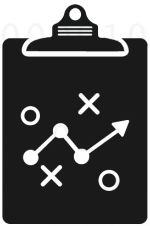


Image by linda.nl

Tasks of SHOs

Strategic

Day-to-day



Based on (Priemus, 1999)



Image by Het Parool

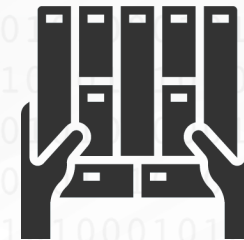
Digital technologies

(1) Obtaining and managing
information



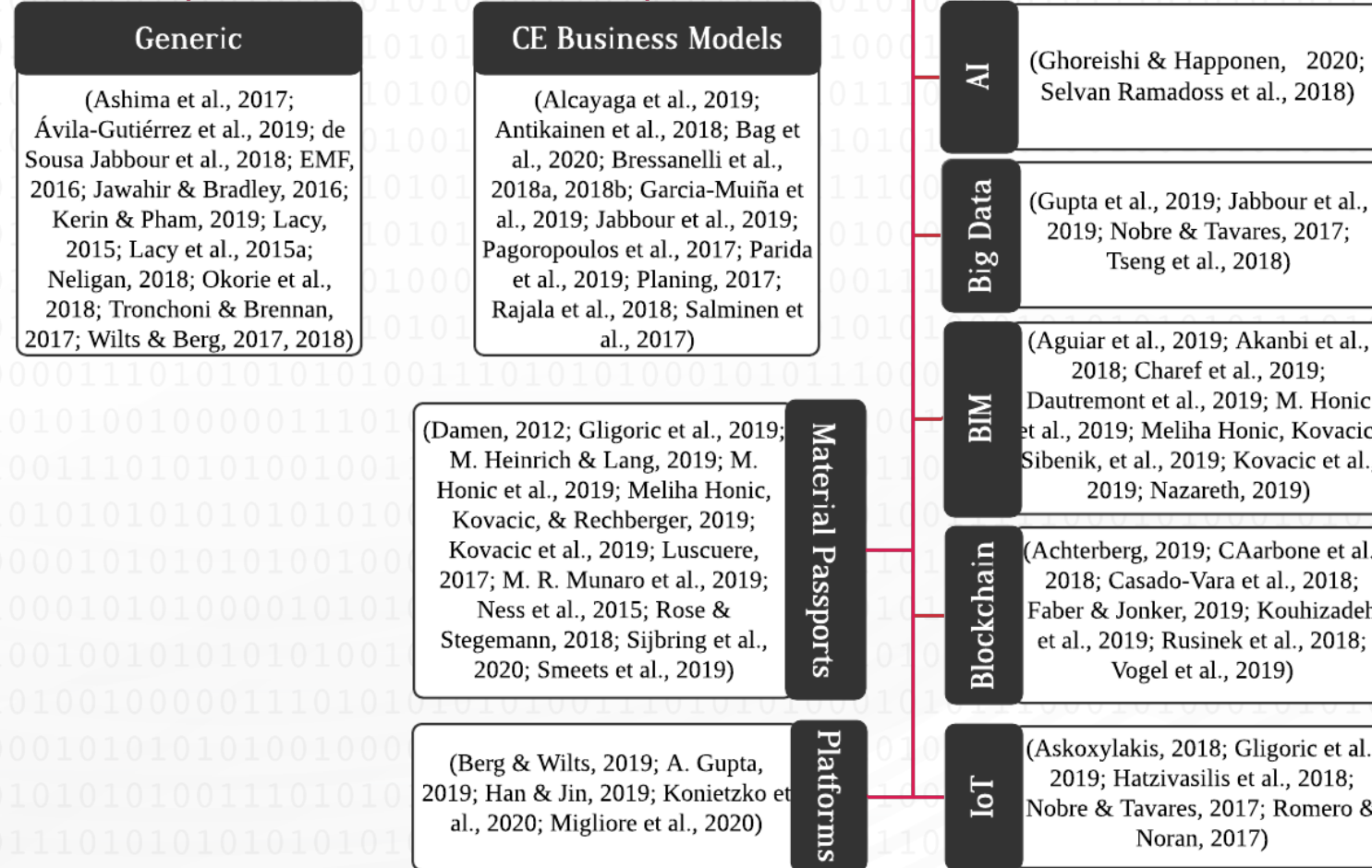
Location, condition and availability

(2) Enabling CE business
models

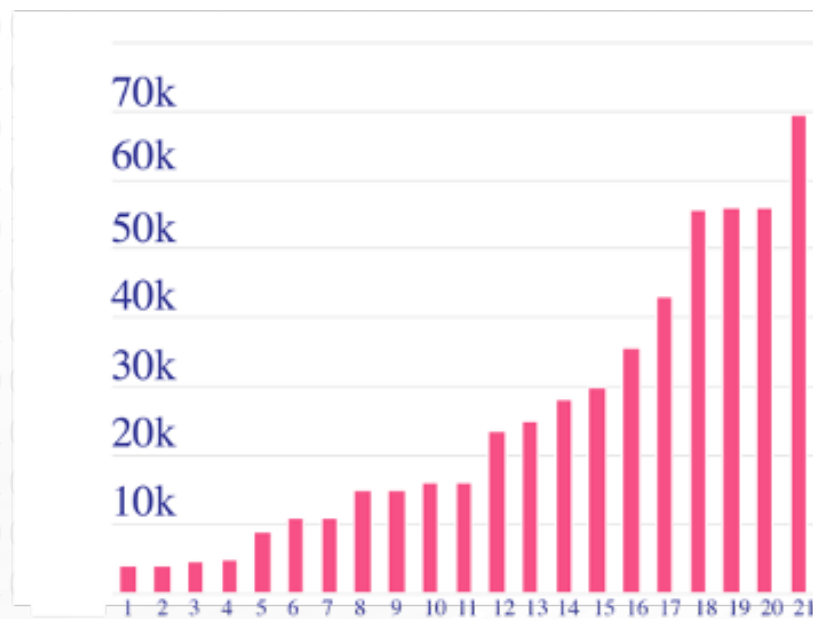


ie. product-service systems,
sharing platforms

Literature Tree Digital Technologies for CE

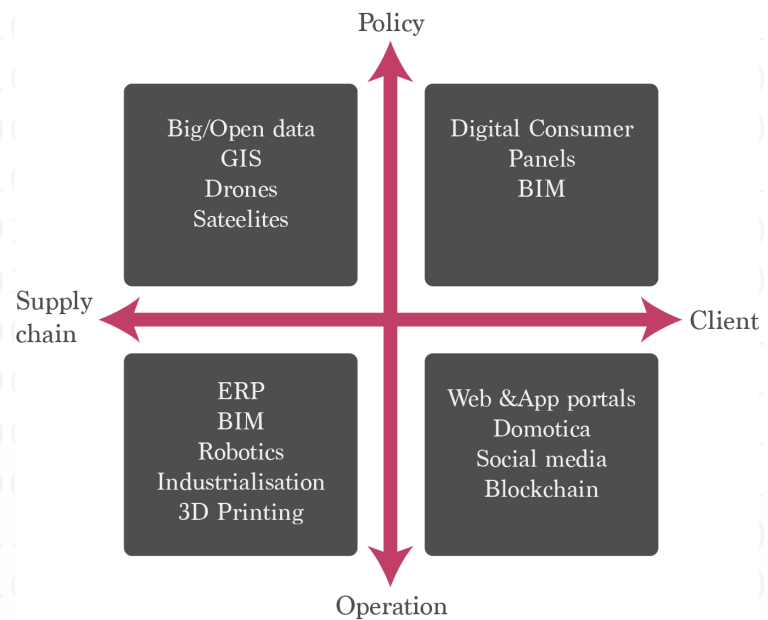
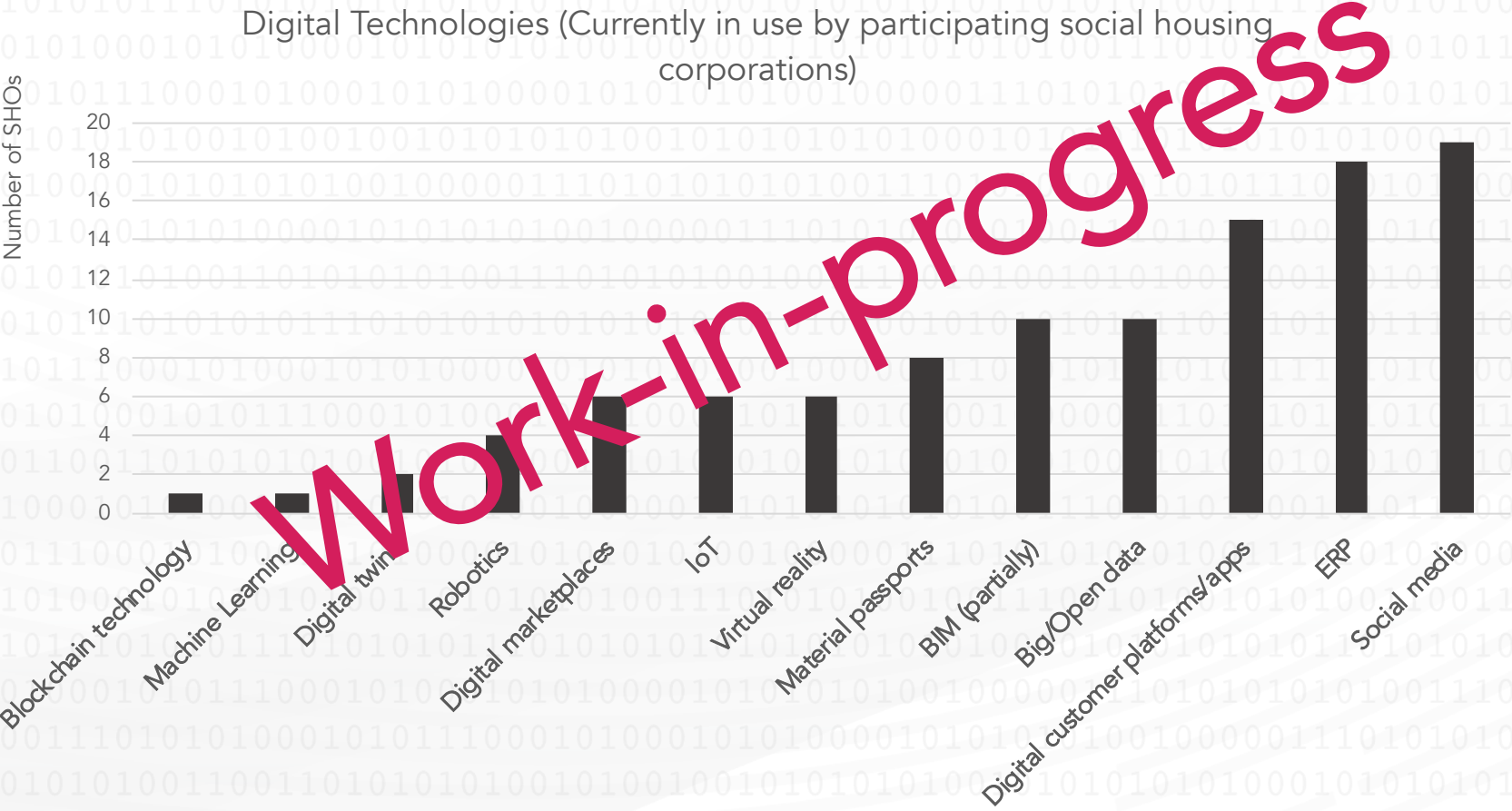


Current study



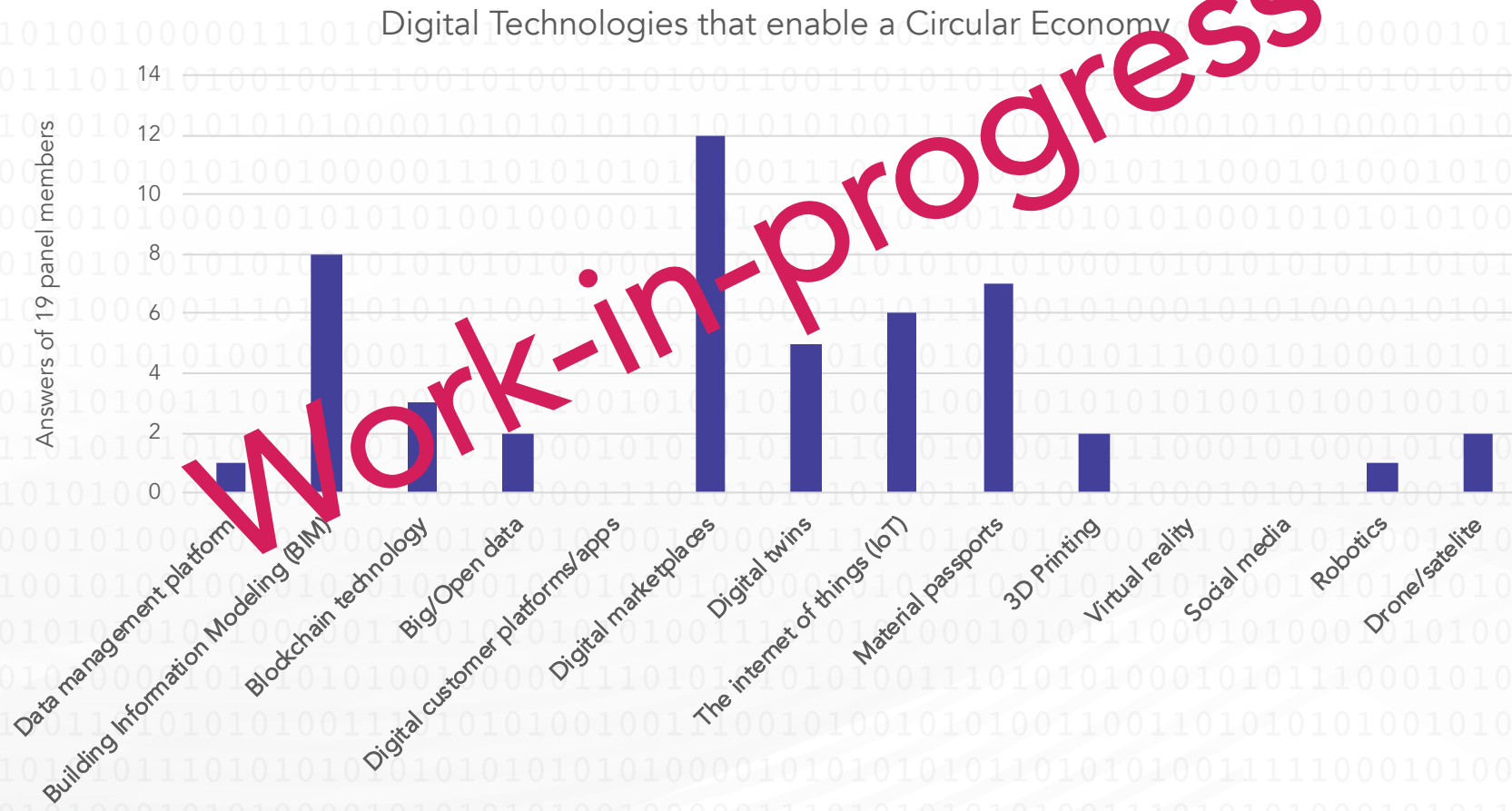
Round 1-Results

Work-in-progress



Source: (Gruis, 2018)

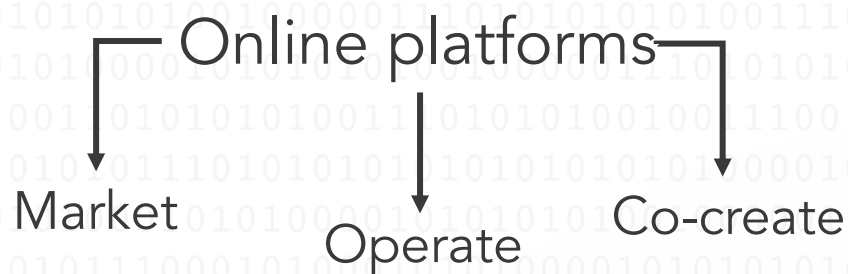
Round 1-Results



Any other technology you want
to add?

-taxation models

Digital Platforms for Circular Housing 4.0

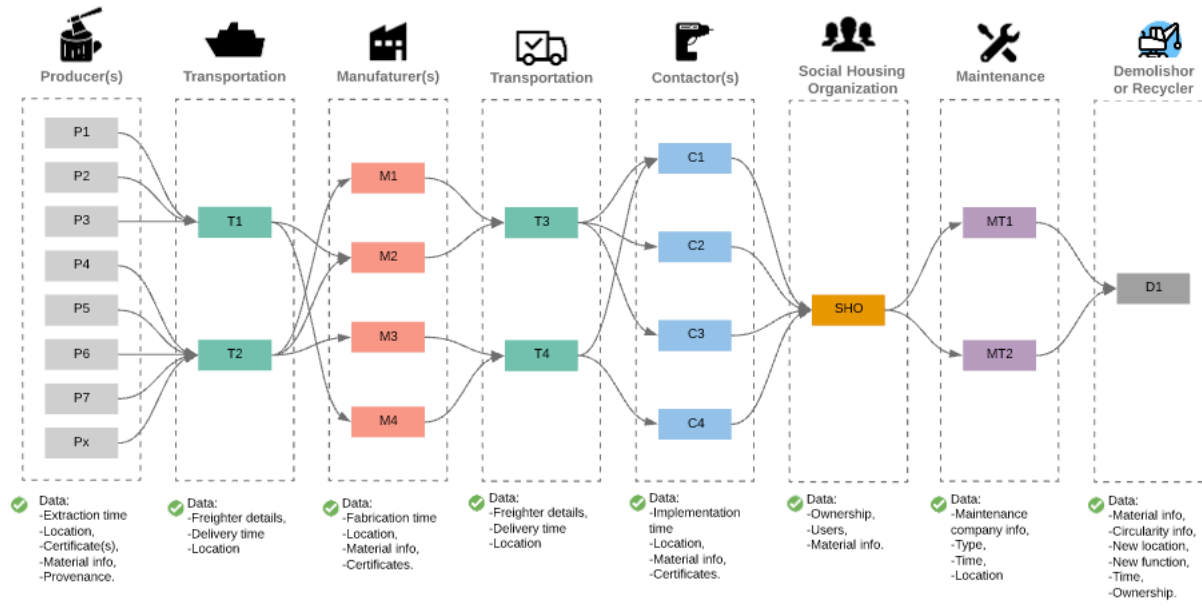


Source (Konietzko& Bocken, 2019)

(1) an in-company resource management platform which narrowing, slowing, and closing the loops strategies enabled,

(2) A digital marketplace where reclaimed building parts exchanged (within the same SHO) or traded (with external actors) by creating a circular business ecosystem together with regional value-chain partners.

Blockchain



The screenshot displays a table with the following columns: ID, Name, Status, Location, Type, Time, and Location. The table contains multiple rows of data, including project details and status updates.

ID	Name	Status	Location	Type	Time	Location
1	Project A	Completed	London, UK	Residential	2023-01-15	London, UK
2	Project B	In Progress	Manchester, UK	Commercial	2023-02-01	Manchester, UK
3	Project C	On Hold	Birmingham, UK	Industrial	2023-03-10	Birmingham, UK
4	Project D	Completed	Edinburgh, UK	Residential	2023-04-05	Edinburgh, UK
5	Project E	In Progress	Glasgow, UK	Commercial	2023-05-20	Glasgow, UK
6	Project F	On Hold	Cardiff, UK	Industrial	2023-06-12	Cardiff, UK
7	Project G	Completed	Belfast, UK	Residential	2023-07-08	Belfast, UK
8	Project H	In Progress	Newcastle, UK	Commercial	2023-08-03	Newcastle, UK
9	Project I	On Hold	Sheffield, UK	Industrial	2023-09-18	Sheffield, UK
10	Project J	Completed	Leeds, UK	Residential	2023-10-02	Leeds, UK

<https://www.youtube.com/watch?v=SDjOVR0NrUY>

The end...