



Den Haag

Circular Economy

Challenges for The Hague

30 november 2016

Versie

Current economic system

Take → make → waste (resource, product, waste)

In Construction, Consumption, etc.

System in itself is not sustainable

(resource-depletion, climate-change, less jobs)

Some numbers:

Numbers current system

- DH: 100.000 times/y trash collected (250 times/d)
- DH: every day 600 ton household waste afval (=75 trucks)
- DH: 31% household waste seperated
- DH: on the beach 474.000 kilo waste collected (>1 ton /day)
- Binckhorst: every day 30 trucks with resources
- NL: 68% of resources from abroad
- World: within 25 y first resources depleted

(see pictures)

Van Oosterwijk Bruynstraat (Laak)
June 2016



Boerhaavestraat
(Stationsbuurt, Centrum)
October 2016



Statenlaan (Scheveningen)

10 May 2016



Time for change: Transition

- In current system: everything is quickly downgraded to trash

→zero value

TOWARDS 100% VALUE

- In current system: owner of “waste” does not know what to do with it

→zero use

TOWARDS 100% USE

New Value (10timesR)

- Refuse, Reduce, Re-design

→ don't use it, make it differently

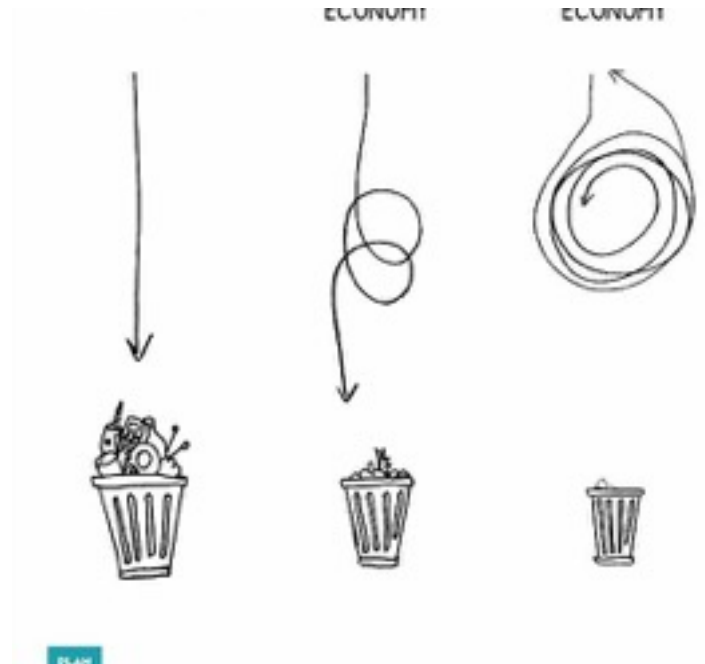
(C2C, Spotify, biobased) *resources (take)*

- Reuse, Repair, Refurbish, Remanufacture

→ Use it for its purpose: SHARING *products (make)*

- Repurpose, Recycle, Recover

→ Use it for other purpose *(waste)*



New Ownership

- Large companies → citizens, coöperations
- Business to peer → peer to peer
- “prosumers’ (3D-printing)
- Producer = owner, buyer = user
 - Vb. Philips: light, Desso: carpets, Bundles/washing-machine
(compare: take make waste → make, use, return)

Driver: live-long products

In The Hague Roadmap along 6 pathways

- 1 collaborate with existing programs (o.a. SC, CD, GD, CS, RNE)
 - 2 initiatives in the city ('070-initiaties')
 - 3 coalition forming www.cedh.nl
 - 4 following developments (regional, national, int.)
 - 5 scans (see analysis business area Binckhorst, city)
 - 6 within the local government (example, Mastercircle, procurement)
- NWC=breeding ground, Binckhorst=playing ground BC's

070 examples in The Hague

- Camptoo, Kringloopwinkels
- Minibiebs, Urban Mining, Afval Loont
- Edibles, Gered Gereedschap
- Windowfarms, Compostbakkers
- Repaircafe, Refunc, Hooooked
- Instock, Uitenhagestraat



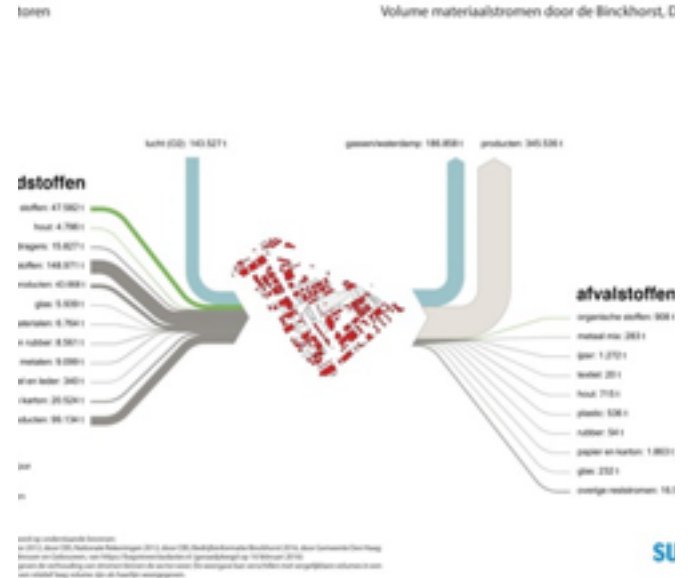
Example 1 Binckhorst business area

Metabolic analysis

flows: resources, products, waste

Conclusions: 30 trucks/d, 20 million euro each year if fully circular

Recommendations: businesscases (energy, coffee-waste),
“resource broker”



Example 2 Waste Station Uitenhagestraat

- New Waste Station
- “harvest map” used containing existing materials (restproducts, “waste”)
à Front: metal waste DAF-plant
à Roof from demolished building
à Etc.



Example 3 Urban Mining

- **Value** for your electronic waste
- Crowdfunding with credits per kilo
- Citizen is shareholder (**ownership**)
- Making local products from electronic waste materials (jobs)



Example 4

- (..)

QUESTIONS?

- WWW.CEDH.NL

- TWITTER

#CEDH

@CirculaireEcoDH

