

# Co-production through digital participatory platforms in Smart City urban regeneration initiatives



**Enzo Falco** - OTB Department, TU Delft



There is not enough technology and that we need more interactive web and mobile apps to allow for actual collaboration and citizen engagement in local government activities (Desouza & Bhagwatwar, 2012; Williamson & Parolin, 2013; Zavattaro & Sementelli, 2014; Ertiö, 2015).

Hypothesis: Technology is available. We have plenty of technological solutions. Need for a better understanding of what hinders co-production through DPPs.

Testing our hypothesis through a systematic literature review of DPPs that claim to be fit for co-production.



European Commission > Strategy > Digital Single Market > Policies >

Digital Single Market

POLICY

## Collective Awareness Platforms for Sustainability and Social Innovation

### CAPS: Evolution

#### Internet Science

Objective 5.1b (FIRE)  
Budget: **4M** EUR  
2 projects funded

#### CAPS

Objective 5.5  
Budget: **15M** EUR  
10 projects funded:  
- 5 pilots  
- 5 CSAs

#### CAPS

##### ICT-10-2015

Budget: 37M EUR  
→ **43M** EUR  
24 projects funded:  
- 17 pilots  
- 3 Internet Science  
- 2 DSP  
- 2 CSA

#### CAPS

##### ICT-11-2017

Budget: **10M** EUR

#### Distributed Architectures for Decentralised Data Governance

##### ICT-12b-2016

Budget: **5M** EUR

**CAPS I**  
**WP 2012-13**  
**(FP7)**

**CAPS II**  
**WP 2014-15**  
**(H2020)**

**CAPS III**  
**WP 2016-17**  
**(H2020)**



# Levels of Relation (e.g. McMillan, 2002; Linders, 2012)

Levels	Sub-levels
<b>Information sharing</b>	Informing: One-way communication ('broadcasting') from government to citizens.
	Consulting: One-way communication from citizens to governments.
<b>Interaction</b>	Two-way communication with dialogue and feedback between citizens and government representatives.
<b>Co-production</b>	Ability of citizens to influence the design, implementation and management of policies and services through involvement in and collaboration with government agencies.
<b>Self-organization</b>	Citizens create solutions independently that are recognised, facilitated or adopted by governments and require some government action.
	Citizens share information and self-organize for matters of private interest that may develop into public demands requiring some government action.



# Co-production

Multi-actor resource inputs; mobilisation of community assets and transferring power from professionals to users (Bovaird, Loeffler *et al.*)

**Individual** citizens' motivation depends on the salience of services (Alford, 2009; Pestoff, 2012; Verschuere *et al.* 2012)

**Organizational** conditions: compatibility, professionals' perceptions, institutional culture and (lack of) incentives (Voorberg *et al.*, 2015)





# Context

Crisis, austerity / recovery regimes, budget cuts and policy reforms

Increasing (policy) focus on active citizenship and ‘DIY’ democracy

Self-organisation, place-making and ‘pop-up’ urbanism, Urban Living Labs, sometimes fostered by digital participatory platforms – DPPs

Abundance of sensing and reporting platforms and apps (Ertiö, 2015)

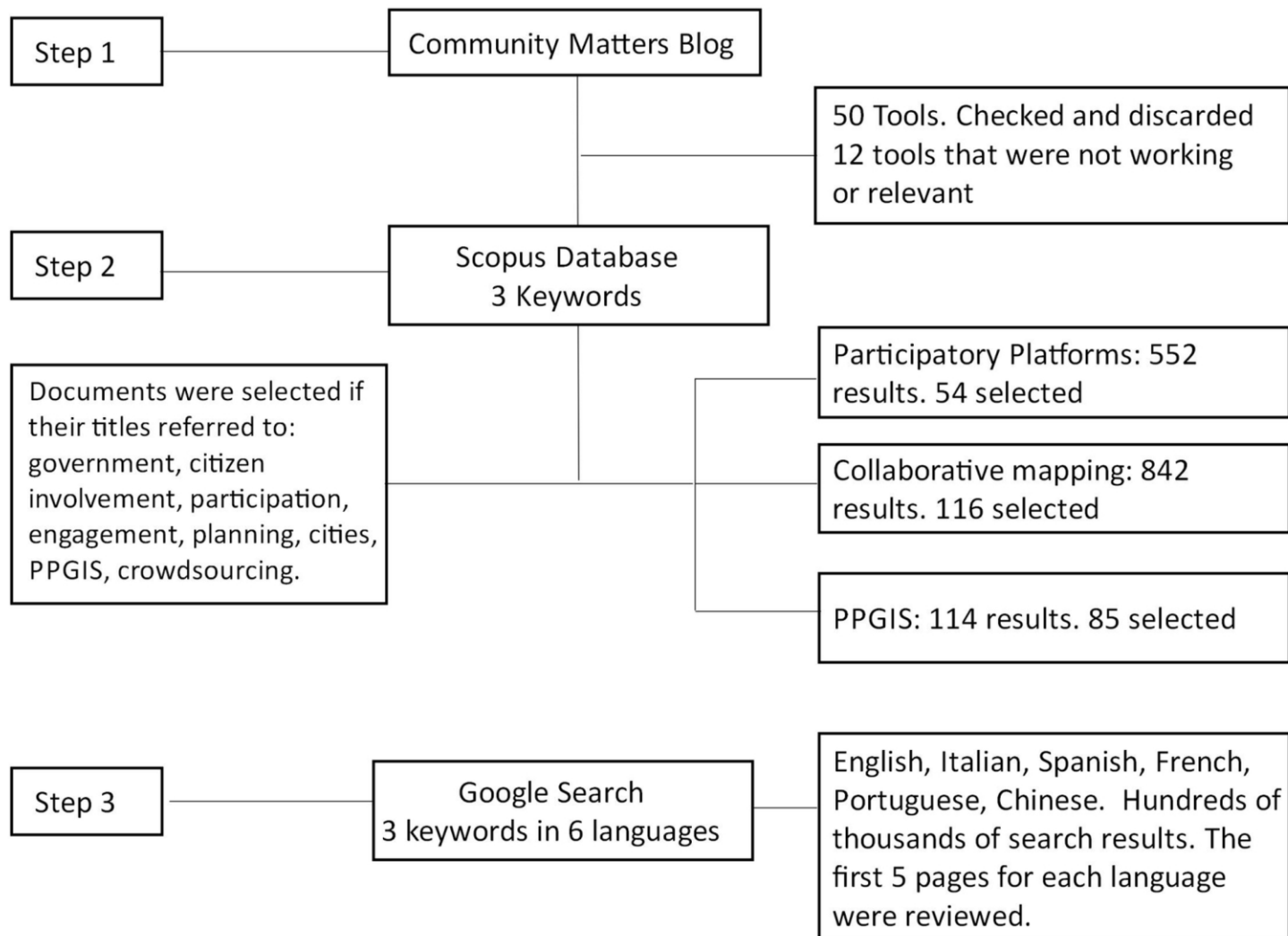


# Definition of DPPs

Digital Participatory Platforms (DPPs) are a specific type of Web 2.0 civic technology explicitly built for participatory, engagement and collaboration purposes that allows for user generated content and include a range of functionalities (e.g. analytics, map-based and geo-located input, importing and exporting of data, ranking of ideas) which transcend and considerably differ from social media such as Social Networking Sites (Facebook, Twitter and Instagram).

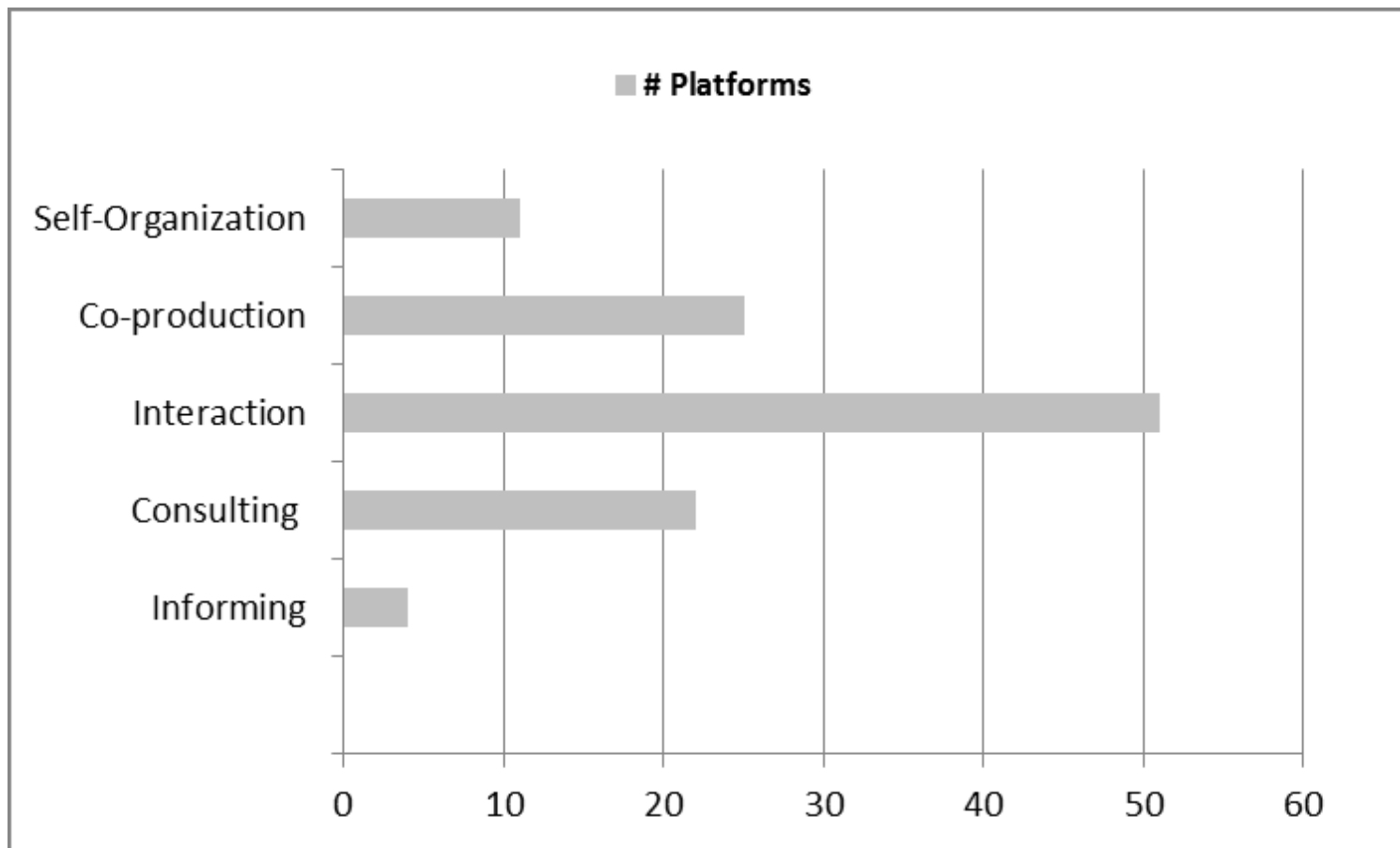


# Methodology





# Results



# Results





# Discussion - What are they used for?







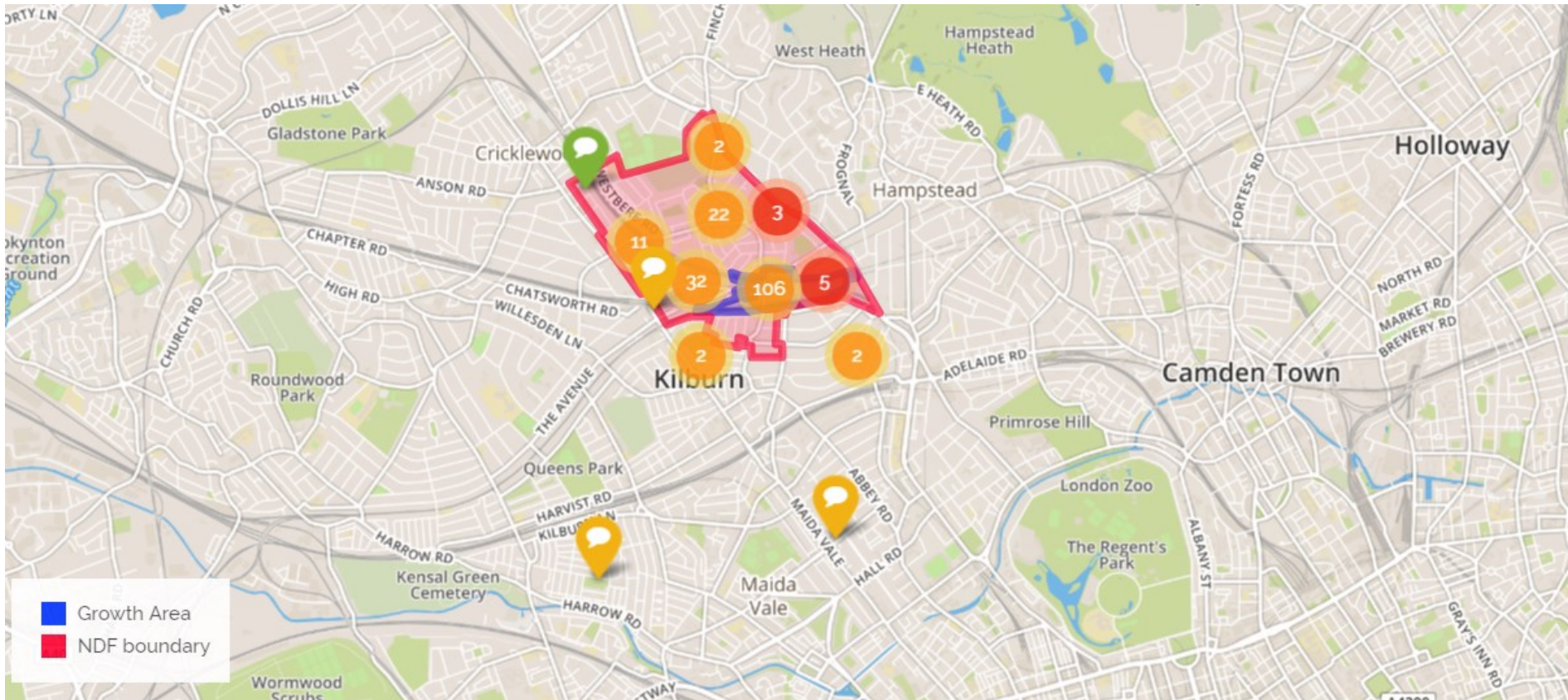
## Broad Street West Redevelopment Area

The Broad Street west redevelopment initiative is a community-focused planning project led by the City of Summit, NJ.

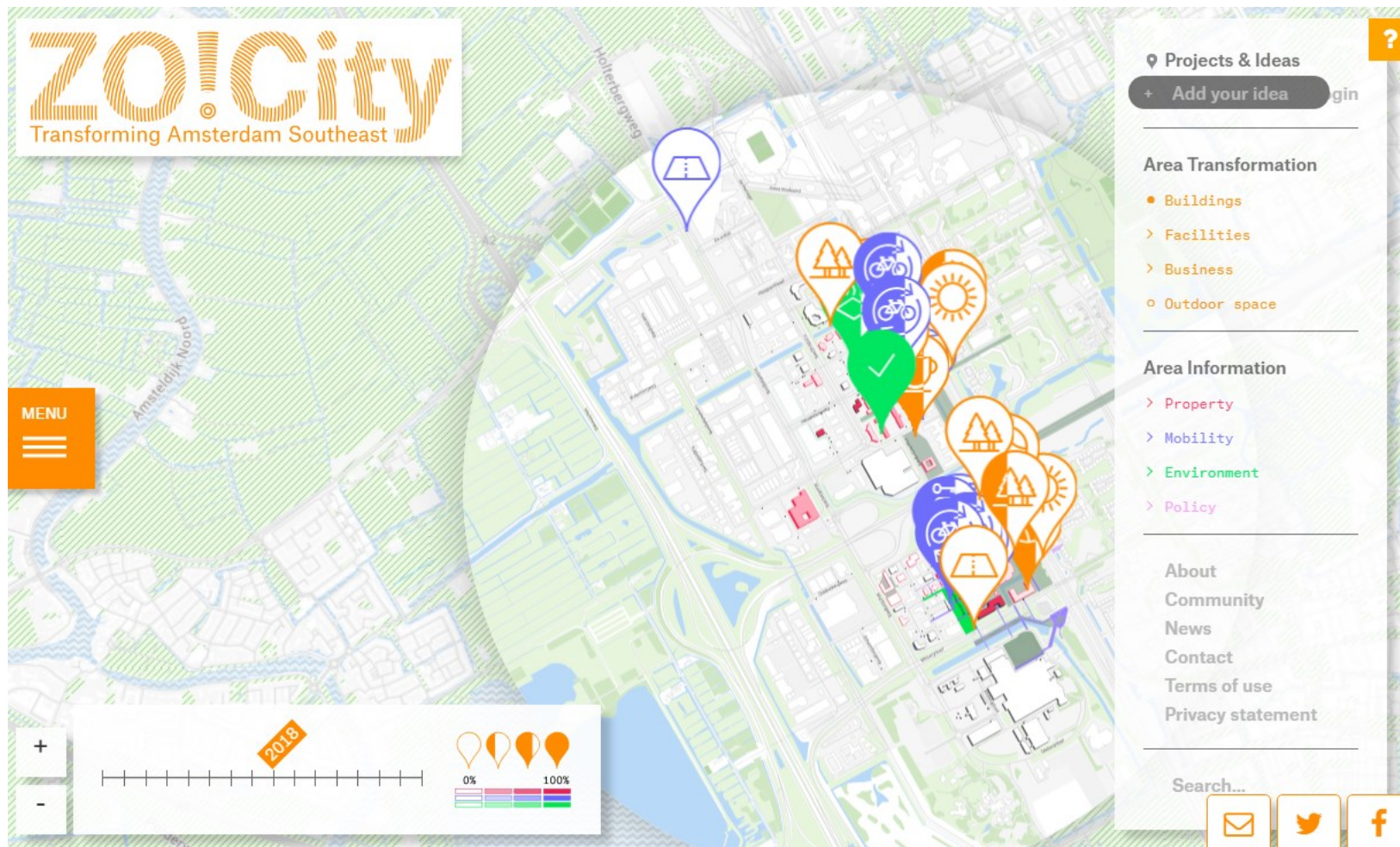
 **Summit, NJ**



# West Hampstead







## Technological Features





# Pricing plans



## Next Steps

- Select relevant case studies - Semi-structured interviews
- Decision on DPPs adoption
- Process
- Outcomes



# Thank you!

**Enzo Falco (PhD)**

**Delft University of Technology**  
**Faculty of Architecture and the Built Environment**  
[E.Falco@tudelft.nl](mailto:E.Falco@tudelft.nl)

