

igu rban Geography

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# Digital funding of Amaravati (A.P. India) technotopian ideas and spatial justice

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#### Crowd-funding of the new green field capital of Andhra Pradesh

First case of state-driven crowd-funding of a very large scale urban project (4,5 millions – 2050) : « My brick / My Amaravati »

> 200.000 donations / ₹50 millions (\$0.75 million)

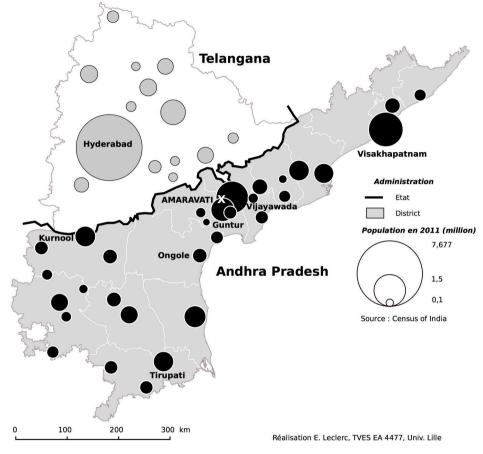


- What crowd-funding teach us on people's relation with space ?
- How web 2.0 could improve spatial justice ?



#### 1.1 From digital to smart cities in Andhra Pradesh

#### Amaravati within the urban network of Andhra Pradesh



#### Web 1.0 digital city

- E-government / computerisation & e-services
- TWINS (Hyderabad) top-down G2C

#### Web 2.0 smart city

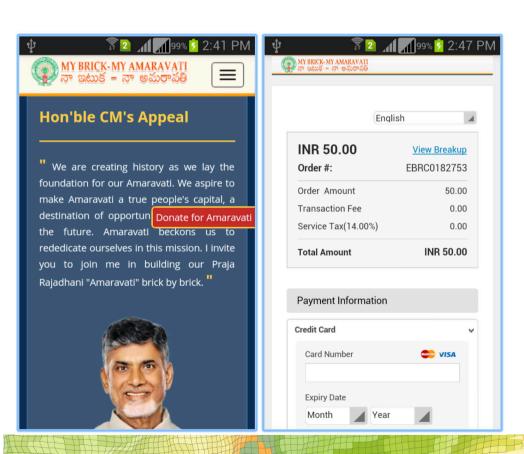
- E-governance (Dameri-2013) bottom-up
- Centralised and real-time government
- Amaravati Project Dashboard
- Social networks mobilisation





#### 1.2. Crowd-funding a capital: `My brick, my Amaravati'

"crowdfunding allows an unlimited number of geographically dispersed people to be reached for the purpose of obtaining small amounts of money for financing a project or enterprise" (Mendes-Da-Silva, Wesley et all. 2016)



#### Academic business community:

- · role of actors (funders and investors)
- · reasons of success and failure
- role of distance for the success

#### `My brick, my Amaravati'

- Patronage model (no reward)
- Public crowd-funding
- Large scale project (unlimited)

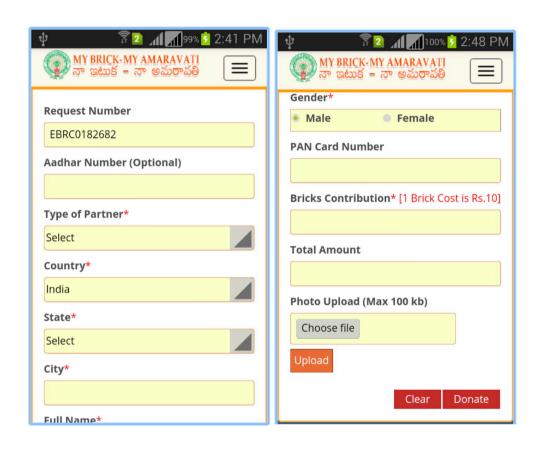




#### 2. Social networks and spatial methodologies

#### Open data for geographical analysis

- Sample: 81.500 donations (15/10/15 - 4/4/17) = 98 % ebricks
- Heterogenous & personal data
- Inaccuracy of locational data
- Web methodology (Open Refine / Google Map API)
- ≥ 5 donations (850 places / 94% of sample)





#### 3.1 A popular crowd-funding initiative

#### Fast and massive support from natives of Andhra Pradesh

Table 1: Number and amount collected by type of donors

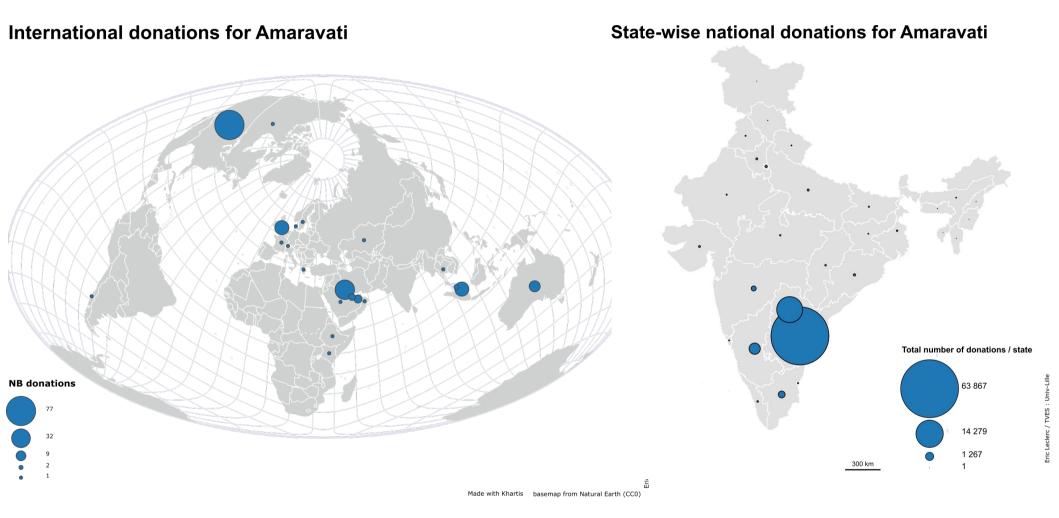
Category	Nb donations	% / tot Don	Nb e-Brick	% / tot e-brick\$	Nb e-Brick / don.
Individual	61 727	75,7	3 778 765	68,7	61
Family	15 284	18,8	1 046 480	19,0	68
Organization	2 163	2,7	655 865	11,9	303
Friend	534	0,7	20 069	0,4	38
Unknown	1 792	2,2	2 158	0,0	1
	81 500		5 503 337		68

Source: website <a href="https://amaravati.gov.in/">https://amaravati.gov.in/</a> (04/04/17)

- 95 % within 2,5 month (2015)
- 95 % of individual or family donations
- 63 e-bricks, ₹630 / donation (10 % monthly income skilled)



### 3.2 Impact of migrations on crowd-funding



94% from pre-bifurcation Andhra Pradesh



#### 3.3 An urban and local support for Amaravati

#### Geography of crowd-funding

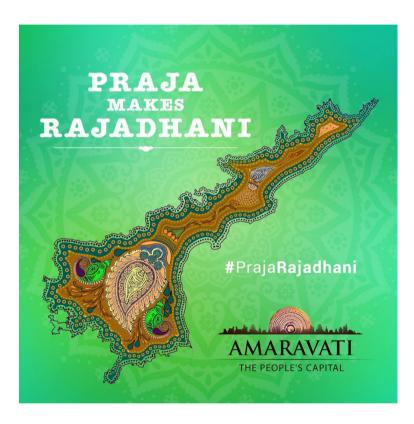
- Political divide : rural Telangana only 1.7 % donations
- Role of distance
  - Regional divide Rayalaseema / Coromandel coast
  - Proximity effect (Krishna & Godavari)
- Economical effect

«The greater the distance between investors and the project is, the less likely the investors are to invest, and furthermore, they will probably invest less »

(Mendes-Da-Silva, Wesley et all. 2016)



#### 4. Conclusions



### Web 2.0 does not erase the spatial dimension :

- · 3<sup>rd</sup> effect of distance => beneficiaries
- Failure of Telegu nation => regional differences

#### Web 2.0 a tool for spatial justice

- Myth of transparency
- Civic engagement = decision making

#### Spatial justice redifined by technological changes in power relations











#### Thank you for your attention ...

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