URBAN AGE ELECTRIC CITY CONFERENCE

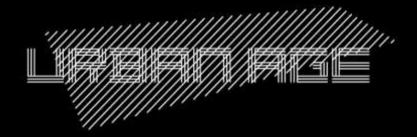
DECEMBER 2012

Philipp Rode

LSE Cities

Facilitating transformation: a global survey of city governments

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FACILITATING GREEN TRANSFORMATION

a global survey of city governments

Urban Age Electric City Conference London, 07 December 2012

Philipp Rode, LSE Cities / Urban Age Programme London School of Economics and Political Science



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01 Policy Sectors: where cities are making a difference

02 Pioneering: attitudes towards socio-technical innovation

03 Collaboration: accelerating the green transition

04 Place Making: spatial planning and infrastructure investments

SURVEY AND CASE STUDY CITIES



GREEN PROGRESS

To what extent have the following green policy objectives been achieved in your city?

Green space 6 3 5 Recycling/composting 3 2 Water pollution Biodiversity Air pollution Energy efficiency GHG emissions Energy security Resource consumption

Very Successful ■ Somewhat Successful ■ Not Successful ■ N/A

DIE POLICY SECTORS where cities are making a difference







WRSTE



WRTER

드미드카드느









GREEN POLICY DEVELOPMENT

How developed are green policies in your city across the following policy sectors?

			00	00					
()	20	40		60	80			10
Food	<mark>10</mark> 10		45		21			13	
Buildings	24		24		35			2	5
Transport	27		26		33			9	5
Energy	24		31			36		5	5
				-					
Water	33		25		31			7	3
Land use	33		26		30			8	3
Waste	30		38			25		e	5 2

Highly Developed
Somewhat Developed
Not Developed

GREEN ECONOMY SECTORS

How significant are the following sectors for your city's economic growth?

Green transport Renewable energy

Green building retrofits

New green buildings

Energy distribution

Green goods and services

Green finance

	47		28 1				4	3	
	47		25			8	}	4	
	26	26				10	2		
	37		30			22	1	8	2
3	3		26		28		3	10	1
20		39			30		l	9	2
16	20		33		18		13		
0	20	40		60		80			1(
Very Significant Somewhat Significant Not Significant						nt			





















LOПDON АЯЯЯУ OFFSHORE ШПОРАЯН

- world's largest off-shore wind farm with 1,000 MW
- electricity for 750,000 homes
- 1.4m tonnes per year of CO₂ emissions reductions

MUNICH UTILITY COMPANY

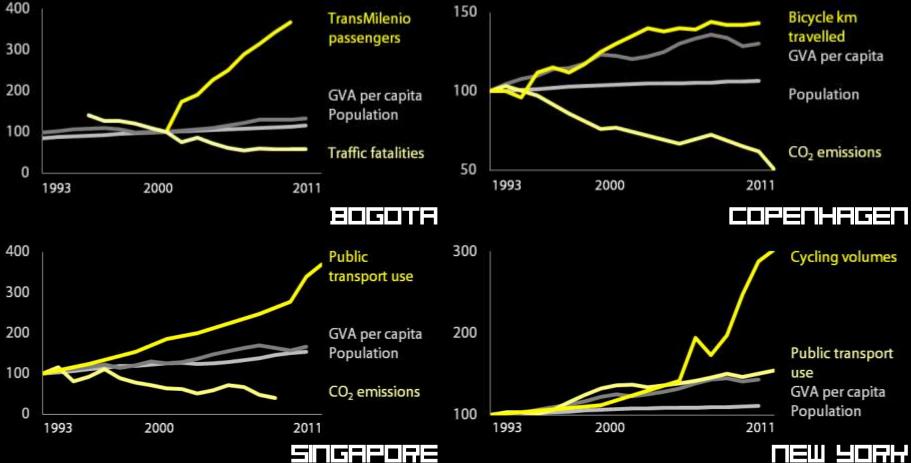
7,500 employees and €4.9bn annual turnover
100% renewable energy target by 2025
Total of €9 billion investment in renewables

TUD **CITIES FIS FIRST MOLERS** attitudes towards socio-technical innovation

PIONEERING CITIES

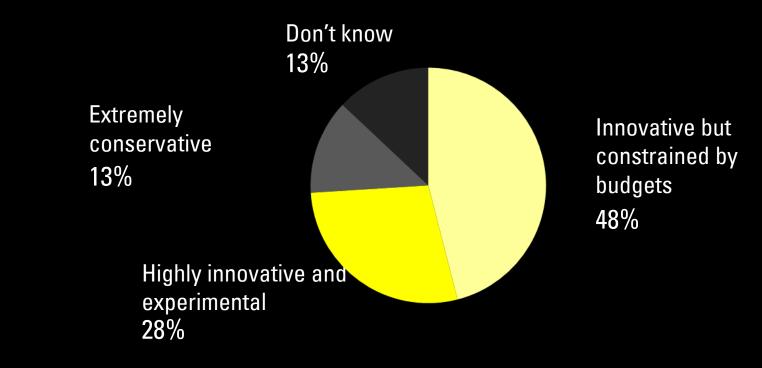


PATTERNS OF CHANGE



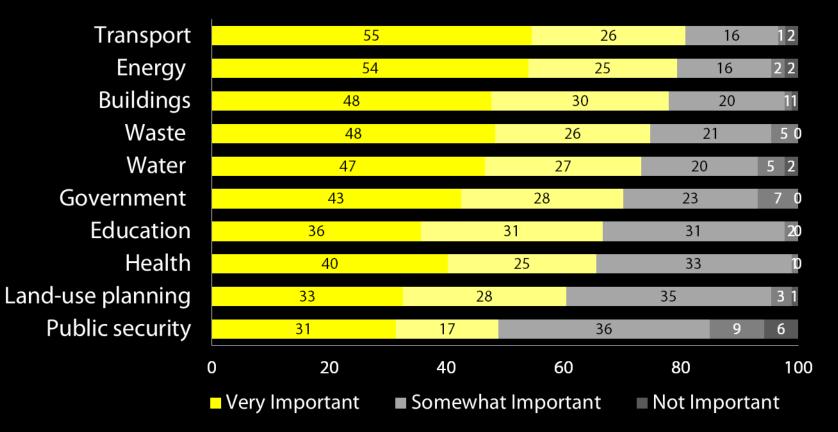
ATTITUDES TOWARDS GREEN INNOVATION AND INVESTMENT

How does your city approach investments in green technology and innovation?



NEW TECHNOLOGY ACROSS SECTORS

How important is the role of new technology in the following sectors of your city?









Integrated transport systems



Public transport mobile apps



SUT

BUILDINGS



Energy efficient appliances



energy gen

erátion



THREE **DLLEEDRETION** accelerating the green transition

TRIGGERS FOR GREEN POLICY

Triggers in making green objectives an important part of a city's political agenda

Public opinion	24			42			27		5	2
Political leadership change		35		20			30	3	11	
Stakeholder pressure	16		31			3	7		9	6
Environmental crisis	20		18		31		12		20	
National/supranational govt	14	16		28			22		21	
pressure					-					
Crisis event	66		31		20			38		
	0 20		40		60 80		30		10	
	Very Im		Somewhat Important			t 🔳	Not Important			

INVOLVEMENT OF STAHEHOLDERS

Involvement of stakeholder groups in the formulation of your city's green policies

Community groups General public State/ Regional Government Business/ industry associations NGOs Local government associations Universities Private firms National Government agencies Other research institutes Private consultancies International agencies

	45		24		24	_	2	3
	41		27		28			22
	43		21		25		8	2
33		3	0		30			7
30		31		2	26		10	2
33		21		28		12		6
33		20		38			8	1
26		26		35			13	0
30		22		29	8		11	
31		15		40		9)	5
17	17		45			19		1
18	17	14	16		35			
)	20	40	60		80			10
Very Impo	ortant	Somewh	nat Import	tant	■Not I	mpo	orta	nt

BERLIN ELECTRIC MOBILITY

- €25m state funding
- €75m private sector funding
- €680m total federal government e-mobility funding
- PLUS policy support related to Germany's Energy Transition

FOLR **CITES FIS PLACE MAREFIS** spatial planning and infrastructure investments

GREEN POLICY TOOLS

91% Development planning 30% 87% Taxation Public awareness 70%

67% Public private partnerships

85% Standards and regulations

> 17% Cap and Trade

70% Public funding and subsidies CAPABILITIES

How would you rate your city's capabilities in the following areas?

Urban planning ICT Policy and legislation Engineering Leadership/ management Community/ social work Finance Project management Natural resource management Policy monitoring **Economic innovation**

42		38	17	20
20	55		16	62
28	46		20	70
27	44		20	90
20	50		21	8 1
26	41		22	11
21	44		24	9 1
23	43		26	80
26	39		24	92
15	45	2	.9	11
10	47	23	17	2
0 20	40	60	80	10

Excellent Capabilities Moderate Capabilities No Capabilities

