

East meets West

September 4th 2012, Nicosia

The Climate Group's Green Digital Agenda

**Luc Bas, Director Europe and
International States and Regions**

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This is part of
THE CLEAN REVOLUTION

THE CLIMATE GROUP'S GREEN DIGITAL AGENDA

The Climate Group

*Founded in 2004 **The Climate Group** is an independent, not-for-profit organization working to inspire and catalyze leadership for a **Clean Revolution**: a low carbon future that is smarter, better and more prosperous.*

***We work internationally** with a coalition of companies, states, regions, cities and public figures.*

We inspire leaders by communicating a compelling narrative for change.

We deliver evidence of successful actions aimed at a low carbon economy.

We work in partnerships to drive transformative change.



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The Clean Revolution

THE CLEAN REVOLUTION IS A VISION FOR A
SMARTER, BETTER, MORE PROSPEROUS WORLD



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The Clean Revolution | Global Alliance Partners

GOVERNMENTS



BUSINESSES



PARTNERS



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The Clean Revolution | States and Regions Alliance



Aragon	Manitoba	Rhône Alpes
Baden Württemberg	New Brunswick	Rio State
Basque Country	New South Wales	São Paulo
Bavaria	Newfoundland and Labrador	Saskatchewan
British Columbia	Labrador	Selangor
Brittany	New York State	Scotland
California	North Rhine Westphalia	South Holland
Campeche		South Australia
Carinthia	Northwest Territories	Tabasco
Catalonia	Nova Scotia	Tuscany
Connecticut	Nueva Leon	Upper Austria
Durango	Nunavut	Vermont
Fatih Region	Ontario	Victoria
Flanders	Penang	Wales
Île de France	Poitou Charentes	Wallonia
Jamtland	Quebec	Western Cape
Kwa Zulu Natal	Queensland	Wielkopolska
La Reunion	Quintana Roo	Yukon
Maine	Reunion	



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States and Regions Clean Revolution Workplan

Formal governance structure adopted Nov 2011, more ownership for S&R:

Regional Co-Chairs: Quebec, Basque Country, South Australia

Steering Group: Co-Chairs, Brittany, Scotland, NRW, New York State, Sao Paulo, Catalonia

World Summit of States and Regions in Rio de Janeiro, June 19th

Rio Clean Revolution Statement

General Assembly confirmed Workplan and WGs

Working groups on:

Electric Vehicles

Financing energy efficiency

Green economy/SMEs

Marine Renewable Energy

LED deployment, standards and regulation

Joint Reporting platform with CDP

Adaptation



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Clean Revolution I The Digital Agenda

SMART 2020: Enabling the low carbon economy in the information age



- Footprint of ICT industry 2% (<4% 2020)
- ICT potential to reduce emissions 15% by 2020
- Global savings to businesses > \$800 billion
- Primary potentials in associated industries: Buildings, logistics, electricity grids, motors
- Need to get SMART
- Much of savings will be seen in cities
- Potential for cities to play a key role in moving to 'Smart' ICT enabled clean future

THE CLIMATE GROUP  GSI
Climate Sustainability
Innovations



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Clean Revolution I The Importance of Cities & Digital Agenda



- 5 billion people in cities by 2020
- World's middle class to grow to >4 billion
- 50% of web connections will be mobile by 2013, 5bn people already have mobile phones
- \$350 trillion (7 times global gdp) investment in urban infrastructure required < 2040
- Smart grid initiative alone created 12,000 jobs in silicon valley
- Over 90% of urban areas coastal and at high risk from climate impacts

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Clean Revolution | Transformative Actions for Smart Cities



Smart City Enabling Environment

- ICT's for Sustainable Energy Partnership
- City Carbon Markets (China)
- Smart Infrastructure Finance



Smart City Planning

- Information Marketplaces
- Climate Smart Precincts
- Agile Cities



Smart City Solutions

- Living Labs Global Awards
- Electric Vehicles
- Lightsavers

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Smart City Enabling | ICT's for Sustainable Energy Partnership



ENSURE
universal access
TO MODERN ENERGY SERVICES.



2012
INTERNATIONAL YEAR OF
SUSTAINABLE
ENERGY FOR ALL

- ISEP
- Commitment to UN's Sustainable Energy for All Campaign and its 3 key goals
- To further the policies at national and regional level that accelerate ICT-enabled energy efficiency and renewable energy
- Global Partnership between The Climate Group, UN Foundation, DESSC and ITIC



DOUBLE THE GLOBAL RATE OF
IMPROVEMENT IN
energy efficiency



UNITED NATIONS
FOUNDATION



dessc
digital energy & sustainability solutions campaign



DOUBLE THE SHARE OF
renewable energy
IN THE GLOBAL ENERGY MIX.



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Smart Cities | Information Marketplaces



- Smart City value not being realised
- Need to recognize positive externalities and economies of scope and scale to exploit value
- Large number of 'Smart' actions in C40 cities
- Low levels of 'Smart' action integration
- Barriers to information marketplaces, cities need

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Smart Cities | Climate Smart Precincts



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Smart Cities | Agile Cities Pre-procurement Standard

Seoul Lagos
Rio de Janeiro
Melbourne Berlin
Toronto Vienna
Barcelona
Birmingham
Bhubaneswar Austin
San Francisco Ottawa
Amsterdam Maipu
Rotterdam Manchester
Lyon Sacramento Kansas City
Bristol Zurich Aachen Vitoria-
Gasteiz Eindhoven Terrassa
Aberdeen Hamburg Odense
Alcornon Tarragona Guarulhos Bottrop
Kista Science City Cologne Lavasa
Cesena Paredes Constance Sant Cugat del
Valles Kortrijk Friedrichshafen Furesø

- 2-year programme to develop pre-procurement standard to overcome barriers to innovative solutions e
- 47 Cities and 150 companies engaging in developing the standard and platform (See CityMart)
- **2012** | Survey and interviews with cities and companies on pre-procurement processes, and open workshop in Guangzhou at Metropolis Summit (November 16th)
- **2013-2014** | City workshops build awareness of best practice and City-Company working groups develop standard



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Smart City Solutions | Living Labs Global Awards



- Global awards for innovative city solutions
- Run with partners Living Labs, CityMart & Cisco
- In 2012 20 cities set challenges, and commit to piloting chosen solutions
- Solutions judged along criteria;
 - Ability to solve challenge
 - Ability to implement
 - Ability to address climate change
- 15 pilots online by end of 2013 including
- 2012 Clinton Global Initiative Commitment, to be announced at annual members meeting in NYC in September

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Smart Cities | Agile Cities CityMart Solutions Marketplace

The screenshot displays the CityMart website interface. At the top, there's a navigation bar with 'Register' and 'Log In' buttons, and a menu with 'Home', 'Showcases', and 'Company'. The main content area features a 'Back' link and 'Showcase 1 of 1'. The central focus is the 'reCar: Public Utility Car' showcase. It includes a 'CHALLENGE' section with a diagram showing cars in dead spaces and a 'SHORT DETOUR' diagram. The text describes a model for a new private utility vehicle company. Below this, there are several award mentions from the Living Labs Global Award 2012. At the bottom, a message states 'You must log in to see the complete showcase presentation:' with a 'Log In' button.

CITY MART BETA
ONLINE MARKET FOR CITIES

Register Log In

Home Showcases Company

Back Showcase 1 of 1

Recommend 0 f t in e +1 0 Show Permalink

CHALLENGE
Too many single occupancy vehicles creating dead spaces within the city.

reCar: Public Utility Car
Rethinking urban mobility

A model for a new private utility vehicle company that owns and operates carports throughout the city (airports, carports encourage mobility, unlike car parks), equipped with small, efficient & environmentally friendly cars, called reCARs.

LLGA 2012

"Climate Impact 3.5 out of 5"
Living Labs Global Award 2012, Glasgow Category (May 2012)

"Ability to Execute 3.6 out of 5"
"Climate Impact 3.5 out of 5"
"Potential Impact 3.6 out of 5"
Living Labs Global Award 2012, Lavasa Category (May 2012)

You must log in to see the complete showcase presentation: Log In

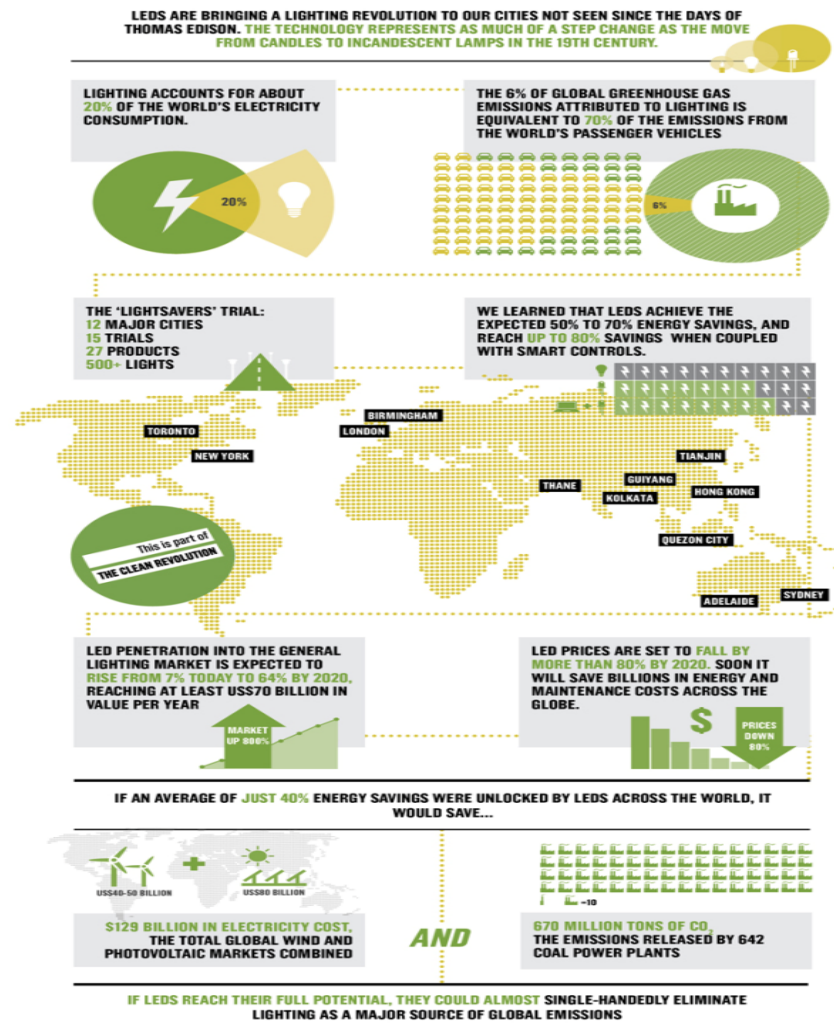
- Searchable online showcase of innovative city solutions
- 1,500 city service products and 10,000 independent product evaluations by verified city representatives



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Smart City Solutions | Lightsavers Programme



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Smart City Solutions | Electric Vehicles



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The Climate Group in China

TCG China's Transformative Actions are delivered via **China Redesign** – A leadership program shifting China's resource consumption toward low emissions while accelerating green growth.

Our Chinese office supports global leadership discussions on collaboration for climate progress

Our Clean Revolution network represents Chinese industry

The Climate Group has offices in Beijing and Hong Kong

Offices shown on map: TORONTO, NEW YORK, WASHINGTON DC, LONDON, BRUSSELS, BEIJING, NEW DELHI, MUMBAI, HONG KONG.

Logos: 中国移动通信 CHINA MOBILE, 汉能 Hanergy

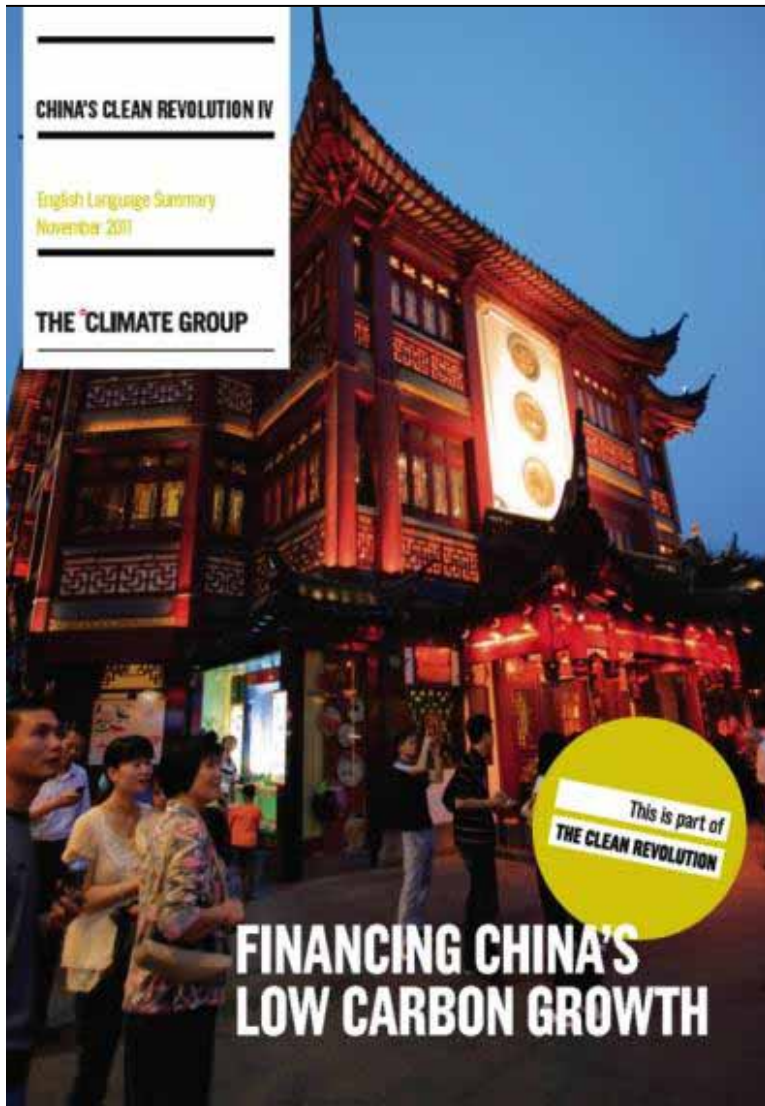


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China Redesign | Evidence & Thought Leadership

The Climate Group's Transformative Actions in China support the transformation of on-the-ground experience into strategic policy



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The Clean Revolution is underway but it's not
happening fast enough or at the necessary scale
...

We need leadership to drive transformational
change towards a prosperous low carbon future
...

The Climate Group's Clean Revolution
Campaign aims to achieve this

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China Redesign I Transformative Actions



planning & design
规划与设计

City Lab

(Virtual design models)

City Pulse

(Eco city performance)

City Lab low carbon design workshops & planning
City Lab design competitions
City Pulse Hangzhou District Carbon Plan



finance
融资

Climate Finance

Infrastructure Finance

Climate Finance Policy Design
City Carbon Market Pilots



infrastructure
基础设施

Optimal Energy Use

Construction Materials

Fast Track Electric Vehicle Deployment Pilots
LED Lighting Pilots
Green Concrete Standards



industry
工业

Clean Energy Supply

Circular Economy

Waste to Biofuels Partnership
Green Supply Chain Network



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China Redesign | Smart City Knowledge Exchange



planning & design
规划与设计

- Delegation of 24 Chinese city leaders convened in Brussels as part of The Climate Group's Regional Leadership for Low Carbon Growth programme
- Exchange of information between cities, regions and co-operations on Smart and low carbon projects
- Forthcoming 'EU China Green Design Forum' October 12th, Brussels



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China Redesign | Smart City Planning



- Facilitate integrated city planning between different stakeholders via China Redesign Workshops
- Promote integration of low-carbon & sustainability targets into city zoning plans.
- Develop tools for cities to predict the carbon savings and green growth value of their planning scenarios.
- Integrating smart technology to capture city and district performance (Hangzhou)
- Annual open design competitions for targeted city districts or sub-systems.
- Scenario development with city managers, solution providers, and the communities.



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China Redesign | Infrastructure Finance



- **Develop market mechanisms** to support sustainable private and PPP investment in green infrastructure.
- **Develop the value proposition** for city governments to shift their procurement practices and contracts toward green infrastructure.
- **Grading framework** for infrastructure projects (GEB).
- Integrating buildings with **city carbon market** development in Chinese cities (Shenzhen, Tianjin, Beijing).
- **Joint TCG-Guiyang City workshop** on 'Sustainable infrastructure: Technology and financing solutions'. Panelists from Philips Lighting, Water Enterprises Group, China Concrete, Midway City Investments and Industrial Bank of China



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China Redesign I City Carbon Markets



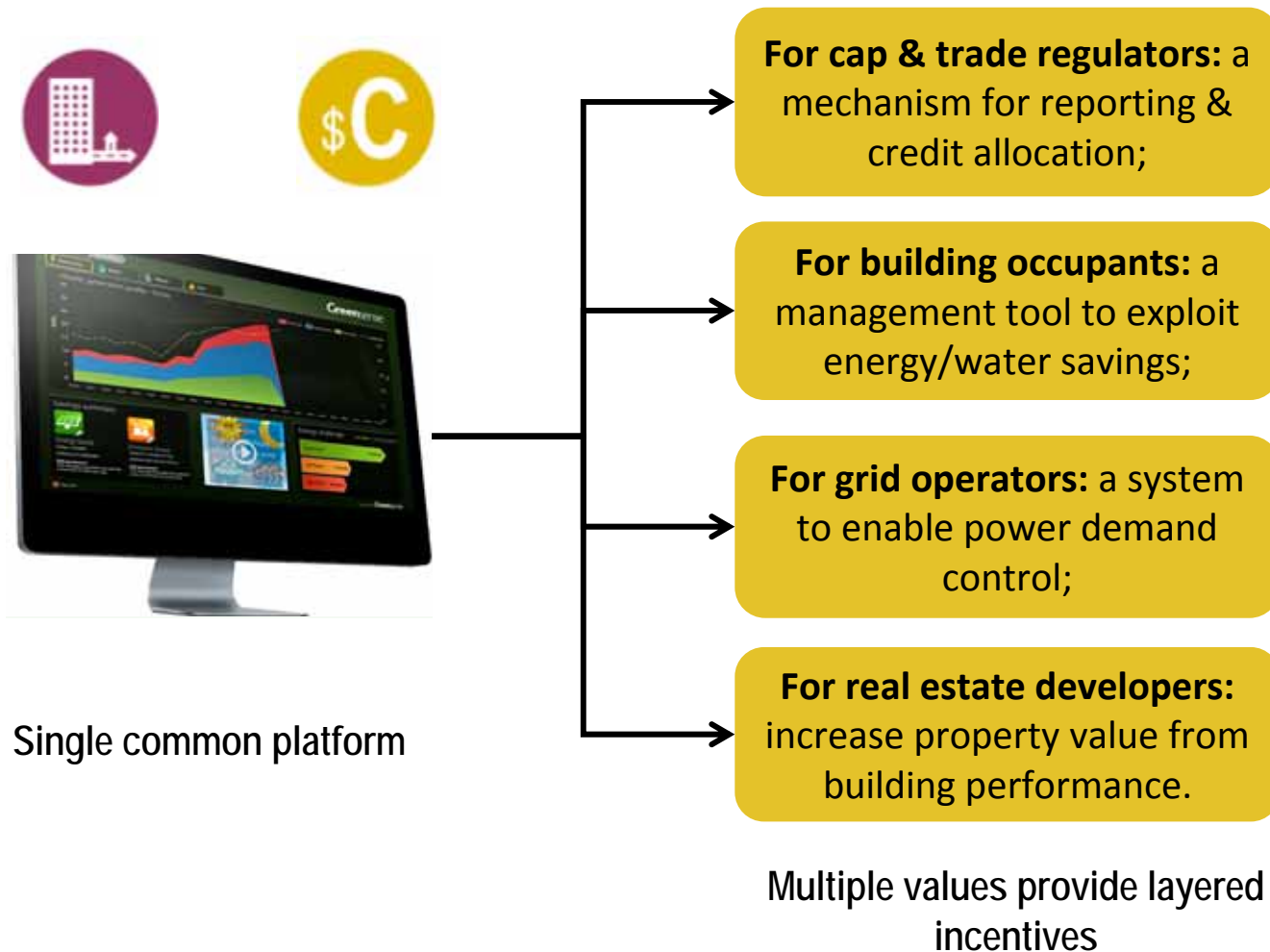
- Linking Shenzhen and Tianjin with the experience of Tokyo's CO2 cap & trade system **to identify design and policy elements** for China's context.
- **Thought leadership on cap & trade** designs and policies, in partnership with cities, emission exchanges and the real estate sector in China.
- **Install a real-time energy monitoring platform** in 100 private sector buildings in Shenzhen and Tianjin to expand the public building energy programs.
- **Model & pilot** how the real-time monitoring creates value for carbon trading, energy savings, grid management, and building labeling.
- **Promote dynamic benchmarks** of energy performance for different private sector building types.
- **Combine market incentives** to drive building performance labeling.



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China Redesign I Smart Buildings 100-Building Pilot



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China Redesign I LED Lighting



- LED lighting pilots in Tianjin, Guiyang and Hong Kong support upscale of LED technologies
- 1,000 Villages programme, which installed solar LED lighting in Guayang, Chengdu and ChongQin villages praised at UN Momentum for Change Event
- LED Lighting Performance and Practical application seminar hosted in Hong Kong



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Thank you for your attention!

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