



Market Place of the European Innovation Partnership on
Smart Cities and Communities



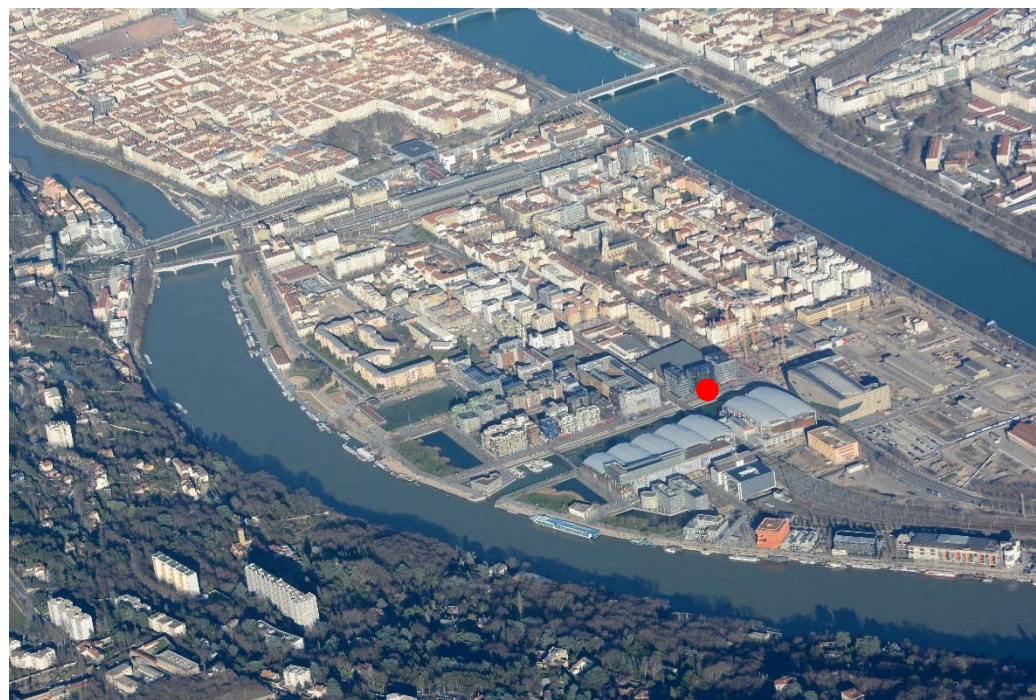
HIKARI, a mix-use positive energy block in Lyon, France

Etienne Vignali (SPL Lyon Confluence)
Eindhoven, 24 May 2016



GRANDLYON
la métropole

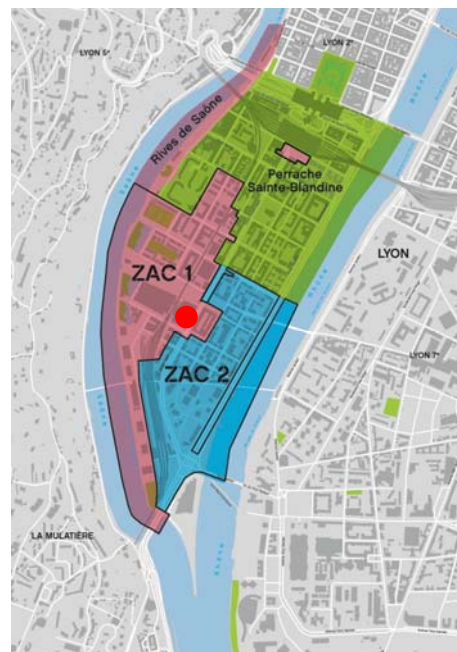
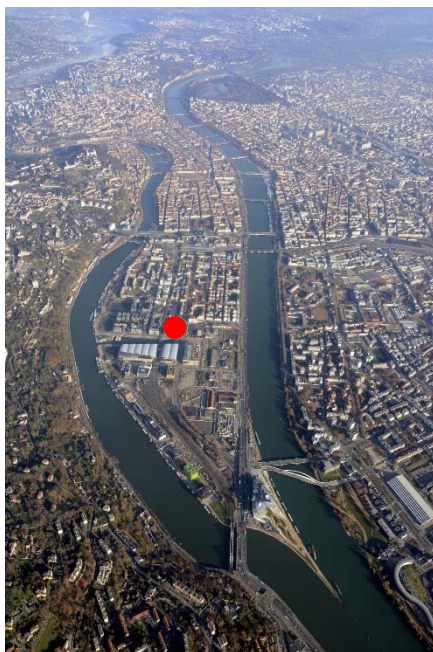
Eindhoven



● Hikari



The Lyon-Confluence urban project



- 150 hectares (70 renewed)
- 1,000,000 m² net floor area to be built
- 20,000 residents (7,000 in 2000)
- 25,000 jobs (7,000 in 2000)

Existing neighbourhood

Phase 1: 2003-2018

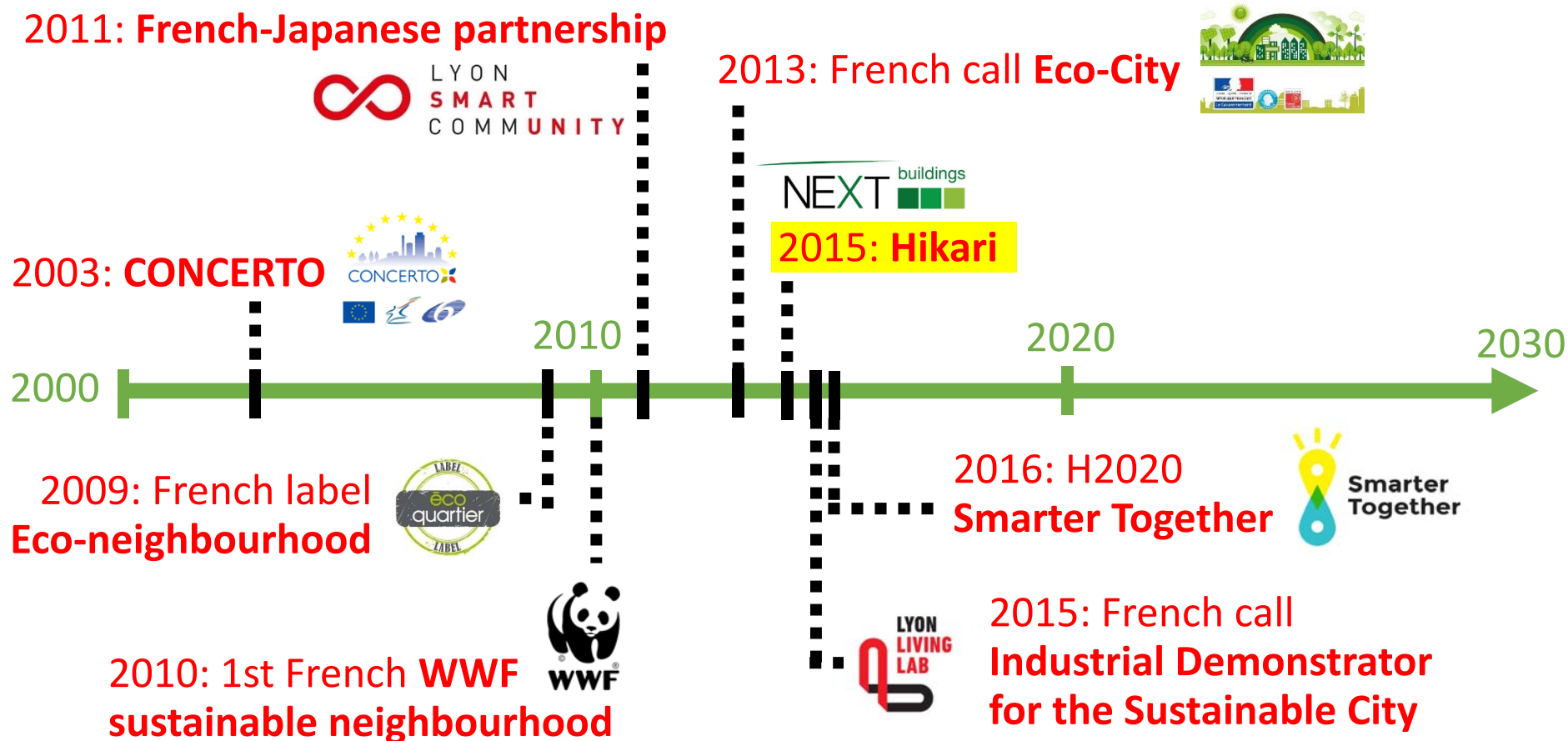
Phase 2: 2012-2030

Commissioning of Hikari: september 2015

● Hikari

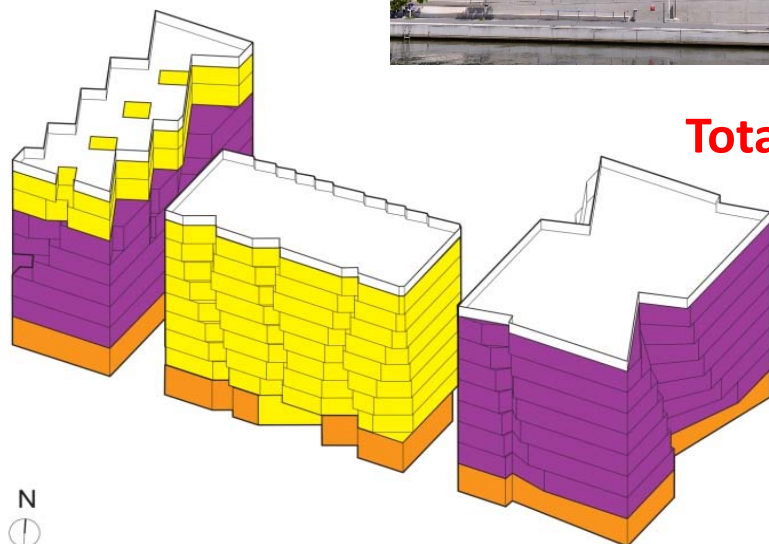
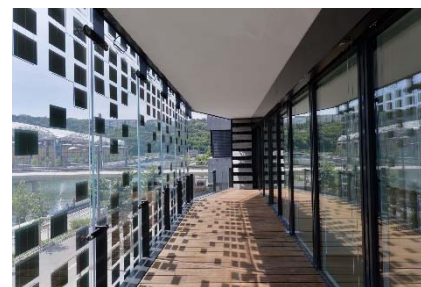
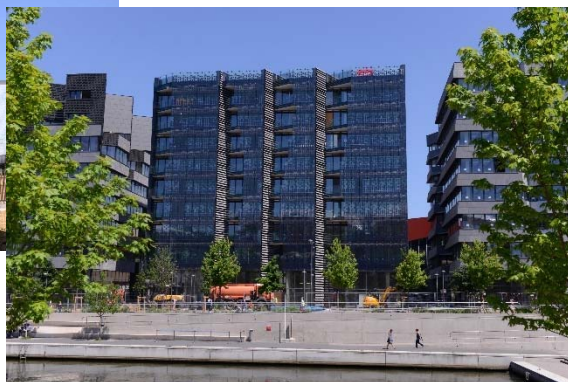


Lyon-Confluence: a sustainable action plan





Hikari: a mix-use block



Total floor area: 12,300 m²

Dwellings

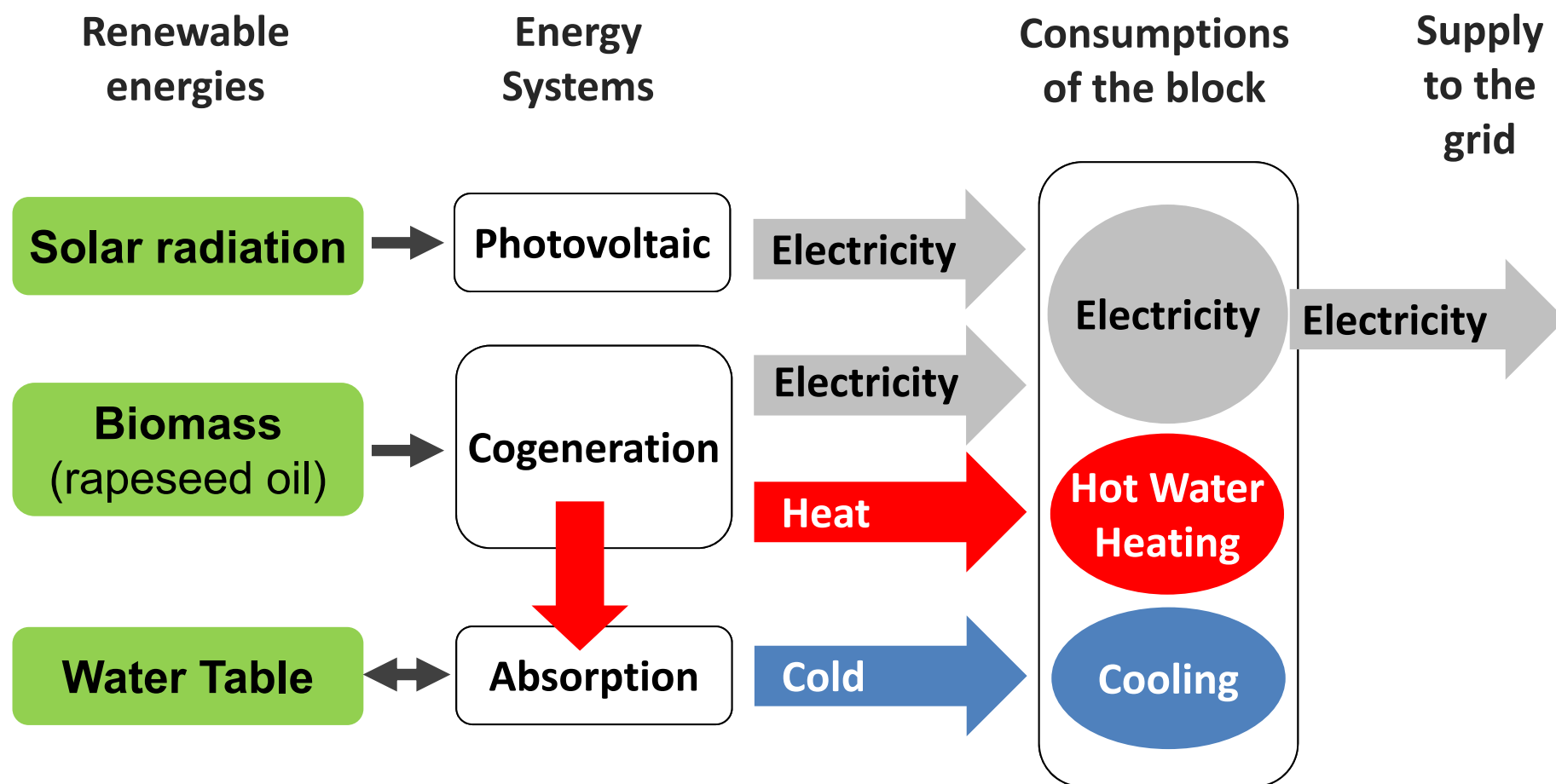
Office spaces

Shops





Hikari: a positive energy block





Hikari: a positive energy balance

Energy production of Hikari
1.485 GWh of primary energy



■ Electricity (cogeneration) ■ Electricity (photovoltaic)

+2.8 MWh (0,2%)

Energy consumption of Hikari
1.482 GWh of primary energy



■ Electricity ■ Rapeseed oil ■ Gas

source: building permit of Hikari (2012)



After Hikari: what is next for Lyon-Confluence?



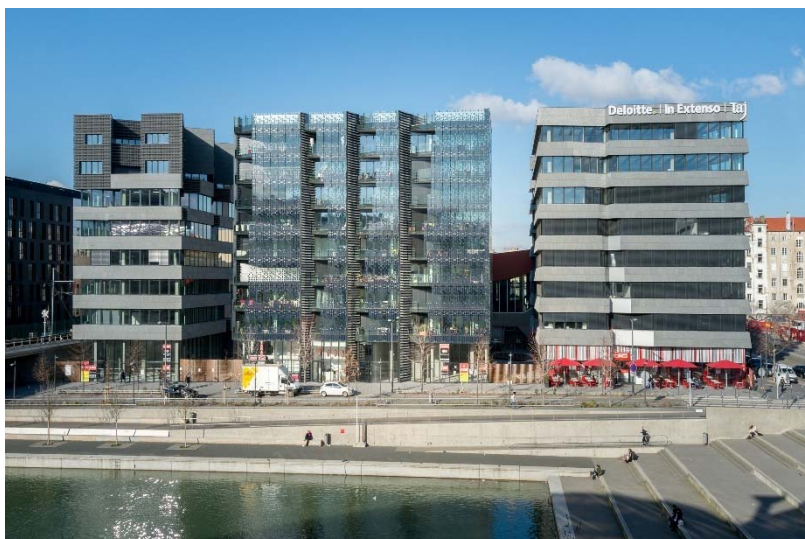
KENGO KUMA & ASSOCIATES



Lyon Confluence in 2030



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Thanks for your attention!

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