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Urban learning

Integrirano energetsko planiranje urbanih područja

GRAD ZAGREB

GRADSKI URED ZA ENERGETIKU, ZAŠTITU OKOLIŠA I ODRŽIVI RAZVOJ

GRADSKI URED ZA STRATEGIJSKO PLANIRANJE I RAZVOJ GRADA

ZAVOD ZA PROSTORNO UREĐENJE GRADA ZAGREBA

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Grant Agreement number: 649883 — URBAN LEARNING H2020-EE-2014-2015/H2020-EE-2014-3-MarketUptake

Projekt

- *integrirano energetsko planiranje urbanih područja;*
- *razvoj urbanih područja s niskim emisijama CO2;*
- *upravljački procesi - jačanje kapaciteta i zajedničko učenje i suradnja svih dionika;*
- *u slijedećih 20 god. planirati gradnju i obnovu stanova i radnih mjesta za cca 3 mil. ljudi, planirati više od 1700 GWh/a uštede energije i preko 2000 Gwh/a energije iz obnovljivih izvora;*
- *transfer znanja prema 150 gradova.*

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Partneri

1) **TINA VIENNA** , Austrija
2) **MAGISTRAT DER STADT WIEN**, Austrija
3) **BEA** (BERLINER ENERGIEA GENTUR), Njemačka
4) **VILLE DE PARIS**, Francuska
5) **APC** (AGENCE PARISIENNE DU CLIMAT ASSOCIATION), Francuska
6) **STOCKHOLMS STAD**, Švedska
7) **GRAD ZAGREB**, Hrvatska
8) **EIHP** (ENERGY INSTITUTE HRVOJE POŽAR), Hrvatska
9) **MIASTO STOLECZNE WARSZAWA** , Poljska
10) **GEMEENTE AMSTERDAM** , Nizozemska
11) **GEMEENTE ZAANSTAD**, Nizozemska

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Radni paketi

- Upravljanje i formiranje lokalnih radnih grupa
- Inovativne tehničke mogućnosti
- Razmatranje mogućih instrumenata i alata
- Inovativne upravljačke mogućnosti
- Modeli za replikacije
- Komunikacija i diseminacija

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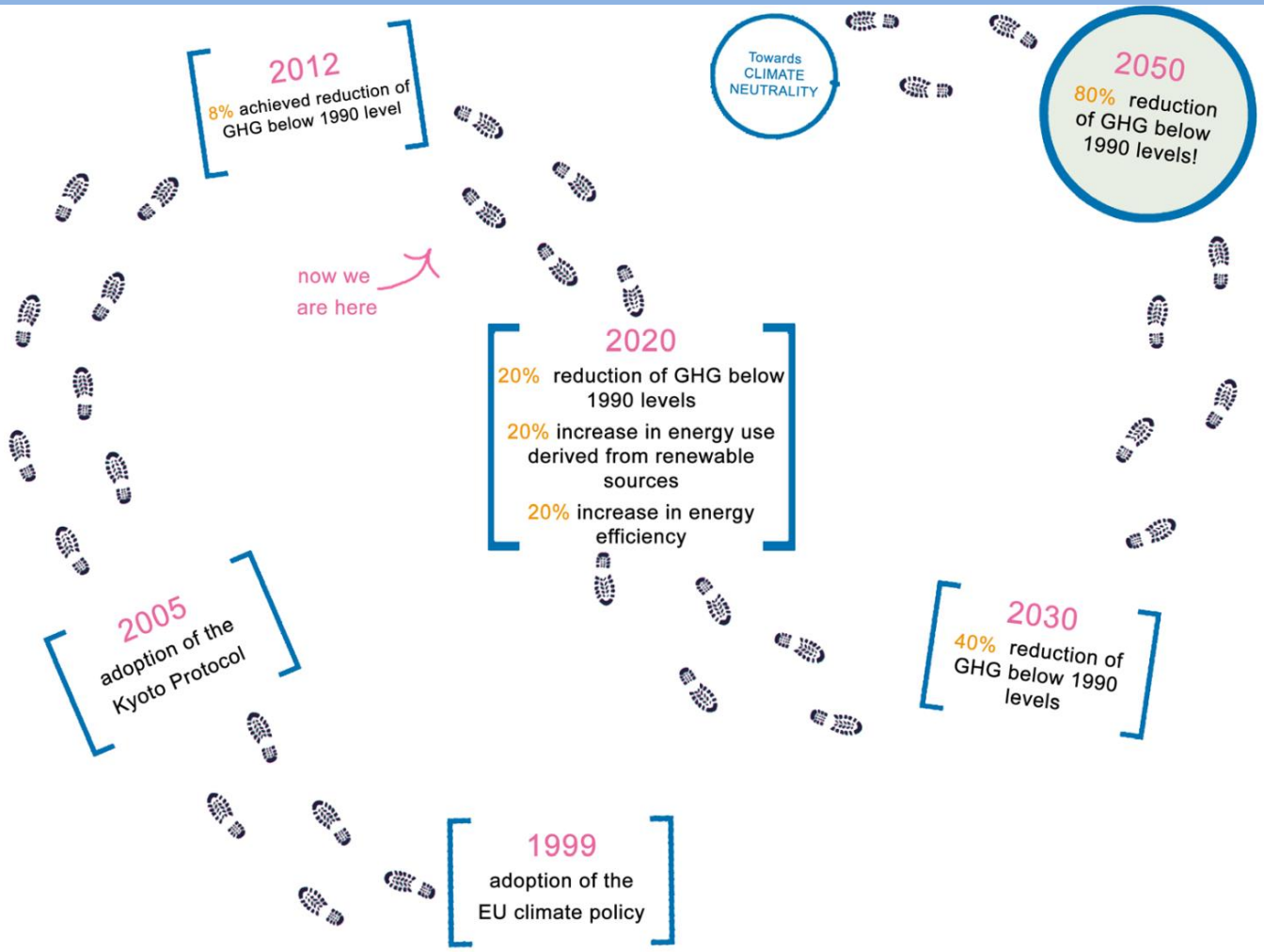
2020., 2030., 2050.



EU climate mitigation targets (From European Cities Moving Towards Climate Neutrality, final report, CLUE, 2014.)

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Strateški ciljevi

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SEAP (Akcijski plan energetski održivog razvitka Grada Zagreba) Sl. gl. GZ 8/10.
*Akcijski plan energetske učinkovitosti Grada Zagreba za razdoblje 2017.-2019.

- **Smanjenje emisija CO2 u svim sektorima implementiranjem mjera energetske efikasnosti, upotreba obnovljivih izvora energije i ekološki prihvatljivijih goriva, racionalno upravljanje potrošnjom, kontinuirana edukacija i ostale mjere;**
- Doprinijeti što je moguće više sigurnosti i raznolikosti energetske opskrbe grada;
- **Reducirati potrošnju energije u svim sektorima;**
- Omogućiti transformaciju urbanih dijelova grada u ekološki održive prostore.

ZagEE

Covenant of Mayors
Committed to local sustainable energy

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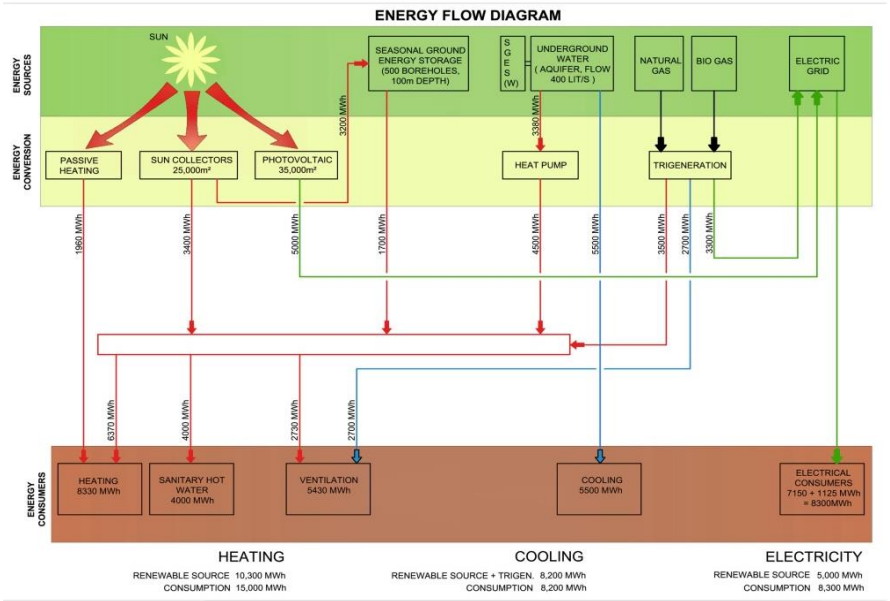
primjeri Zagreb

- **Projekt ZAGEE**- *Zagreb energetski efikasan grad obuhvaćena je energetska obnova zgrada u vlasništvu Grada Zagreba kroz primjenu mjera energetske učinkovitosti i obnovljivih izvora energije za ukupno 89 zgrada. Među njima i 39 zagrebačkih dječjih vrtića,*
- **Projekt Kampus Borongaj**



NOTE: The ratio between energy sources on the above diagram comes as a result of preliminary simulations and analysis. During the Urban Design Stage the design team shall further optimize the results and perform Life Cycle Cost analysis for number of options. Depending on number of factors, joint decision shall be made between all relevant Project entities.

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WP3 Najbolje prakse, instrumenti i sredstva

City	Instrument/Tool	Type
Amsterdam Zaanstad	**Energy Atlas + TRANSFORM tool**	Diagnosis tool
Berlin	**Energy Saving Partnership**	Contracts
	Climate Protection Agreements	
Paris	**Label Ecoquartier / Ecodistrict Label**	Certification at urban project scale
Stockholm	**SRS model for monitoring**	Monitoring
	SRS Over all program (including SRS Action Plan for real estate)	Strategic urban planing document
Zagreb	**Geoportal**	Diagnosis tool
Warsaw	**The Assumptions for Plan of Supply with Heat, Electricity and Gas Fuels**	Diagnosis tool
Vienna	**Public property development competition**	Competition

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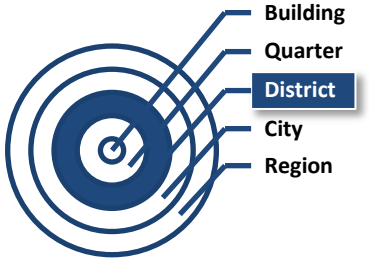
OUTLINE

The Label Ecoquartier is a national approach carried by the state, which aims to decline the overall state objectives in development sustainability at the scale of a development project. A national validation is necessary for granting the label. The city of Paris use this tool to evaluate the quality of the new urban project. Three projects have been approved "eco-quartier" . It gives a good overview of the environmental performance of the project to the municipality.

ENERGY INTEGRATION

Technical profile of the approach: the label includes a commitment charter and objectives structured in 4 dimensions and 20 commitments, which allow actors to organize and a committee of experts to assess the quality of the development. The energy aspect is taken into consideration at an early stage which allow to identify the best energy solutions during all the phases of the urban project.

Project Coming up | Preliminary studies | Project stage | Operational phase | Implementation



KEY FACTS

- > **National label** (State – Environment minister)
- > **39 EcoQuartiers** (labialized districts) between 2012 and 2015
- > Application for district level projects
- > **4 dimensions & 20 requirements**
- > **Charter** to engage municipality
- > **National club** of ecodistricts
- > Project visibility

CONDITIONS OF USE

- > No thresholds but performance indicators
- > Experts comitee for project quality evaluation
- > No financial aids (in progress)
- > Administrative support by state services

No evaluation

Auto evaluation

Evaluation by external experts

READ MORE

http://www.logement.gouv.fr/les-ecoquartiers *(French)*

@

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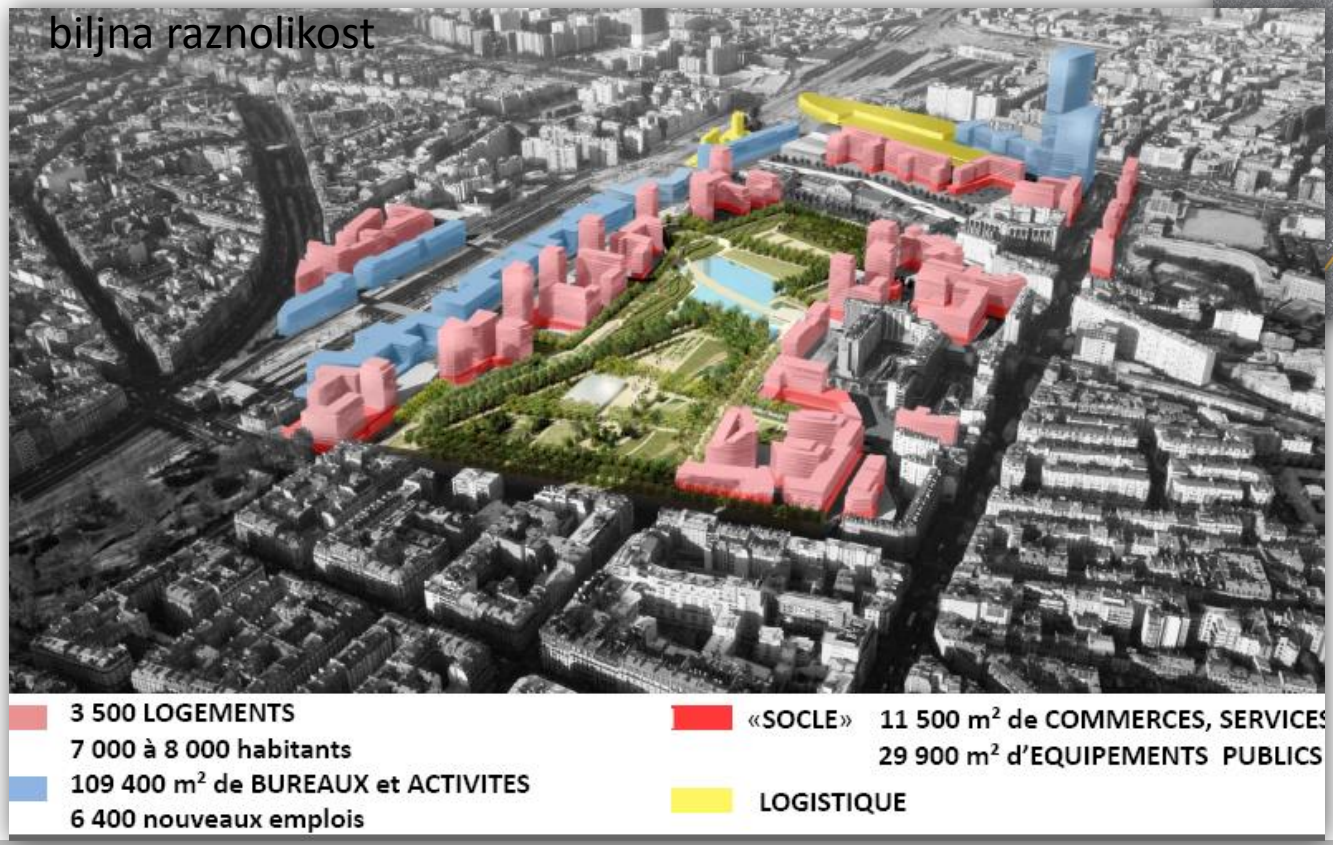
Clichy Batignolles, PARIS (2002-2020)

povezanost sa željeznicom, automatizirano skupljanje otpada vakumom, unaprijeđen javni transport, niska potrošnja energije, upotreba obnovljivih izvora energije, biljna raznolikost



živjeti zajedno (50% soc.st.)
dovođenje prirode u grad
„održiva arhitektura"
povezivanje susjedstva
važne javne građevine
dijeljenje javnog prostora
povećana mobilnost
grijanje-mreža-geoterm.en.
niskoenergetske kuće
naselje koje proizvodi energiju

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Stockholm Royal Seaport (2009-2025)

od *„brownfield "* zone do održivog stambenog naselja

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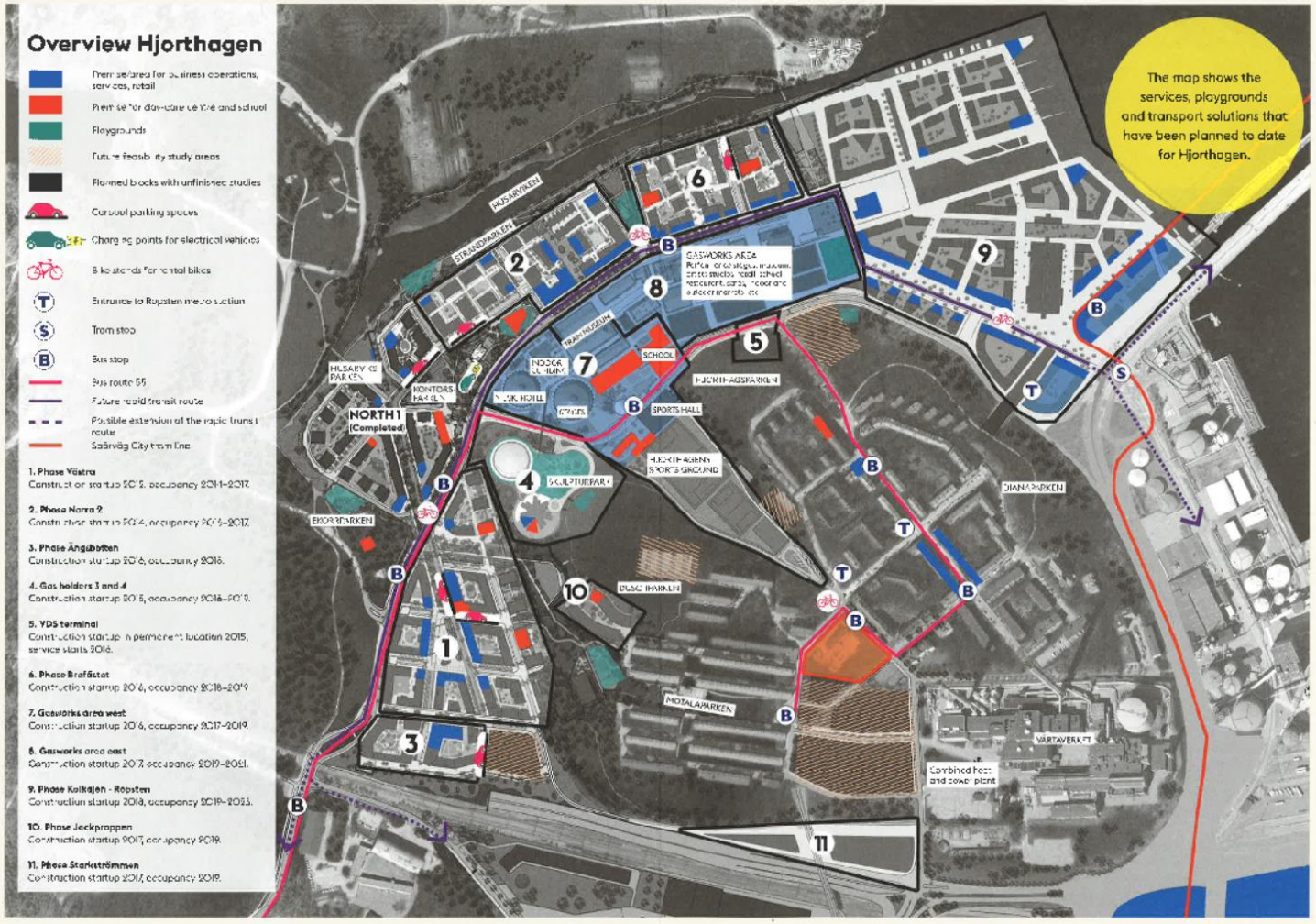
Stockholm Royal Seaport



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Stockholm Royal Seaport

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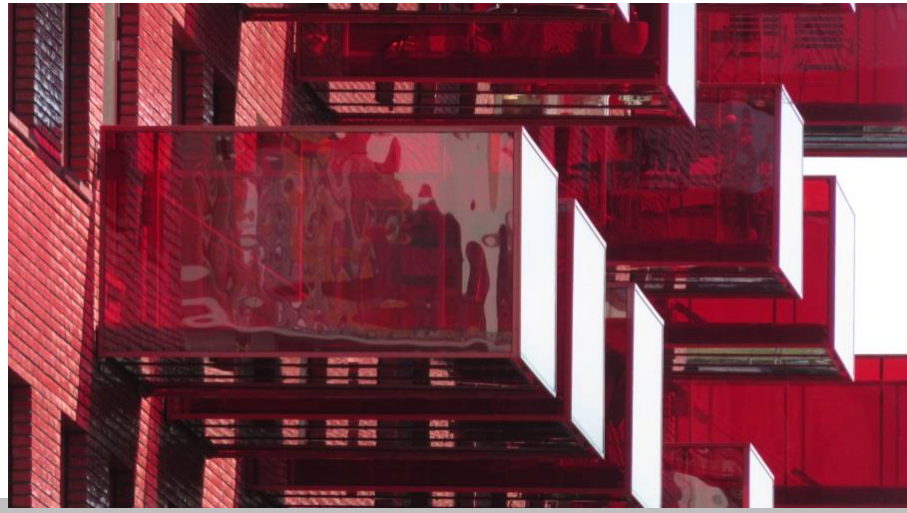
Stockholm Royal Seaport



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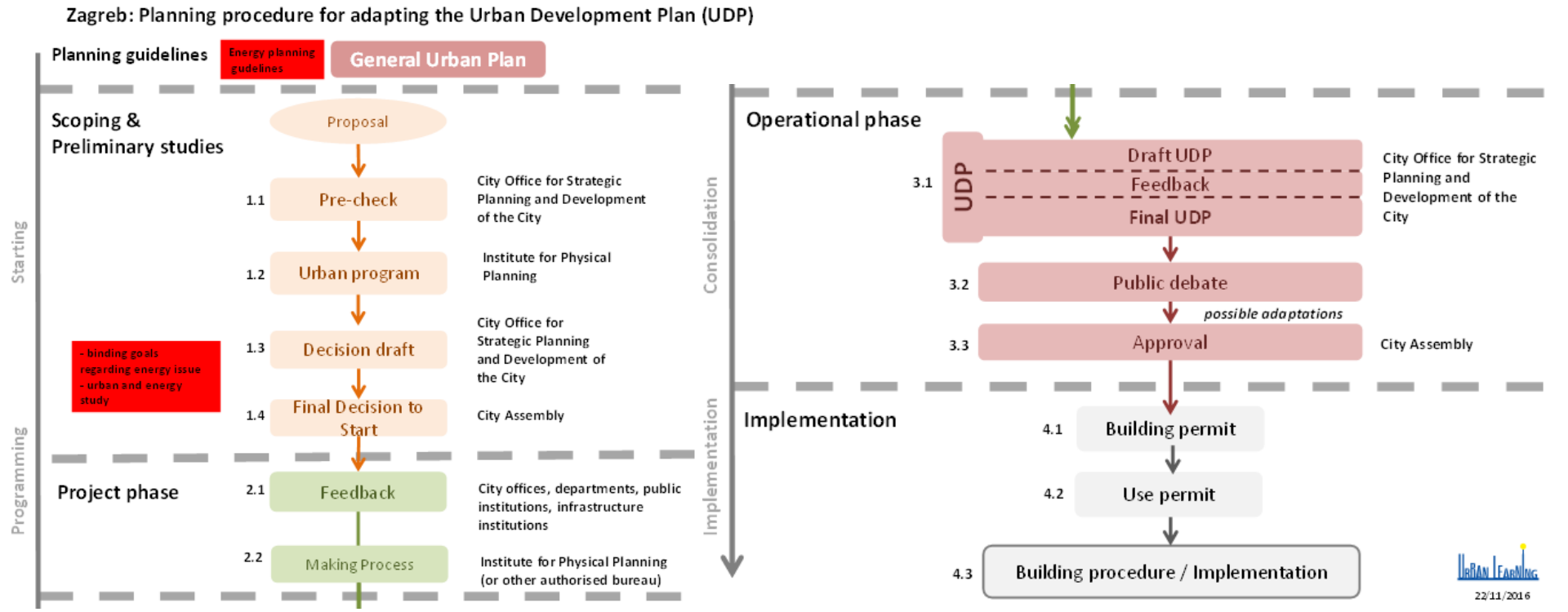
Zagreb – energetsko planiranje urbanih područja

1. DEFINICIJA → 2. CILJ → 3. STRATEŠKA RAZINA → 4.OPERATIVNA RAZINA → 5. PILOT PROJEKT



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Zagreb – Pilot projekt energetske obnove cjelovitog naselja

- 15750 „prve generacije” stanova izgrađenih između 1957. i 1962. godine;
- procjena ušteda više od 41000 Mwh godišnje odnosno 4300000m3 plina; *

*Izvor: Akcijski plan energetski održivog razvitka Grada Zagreba, ožujak 2010.,