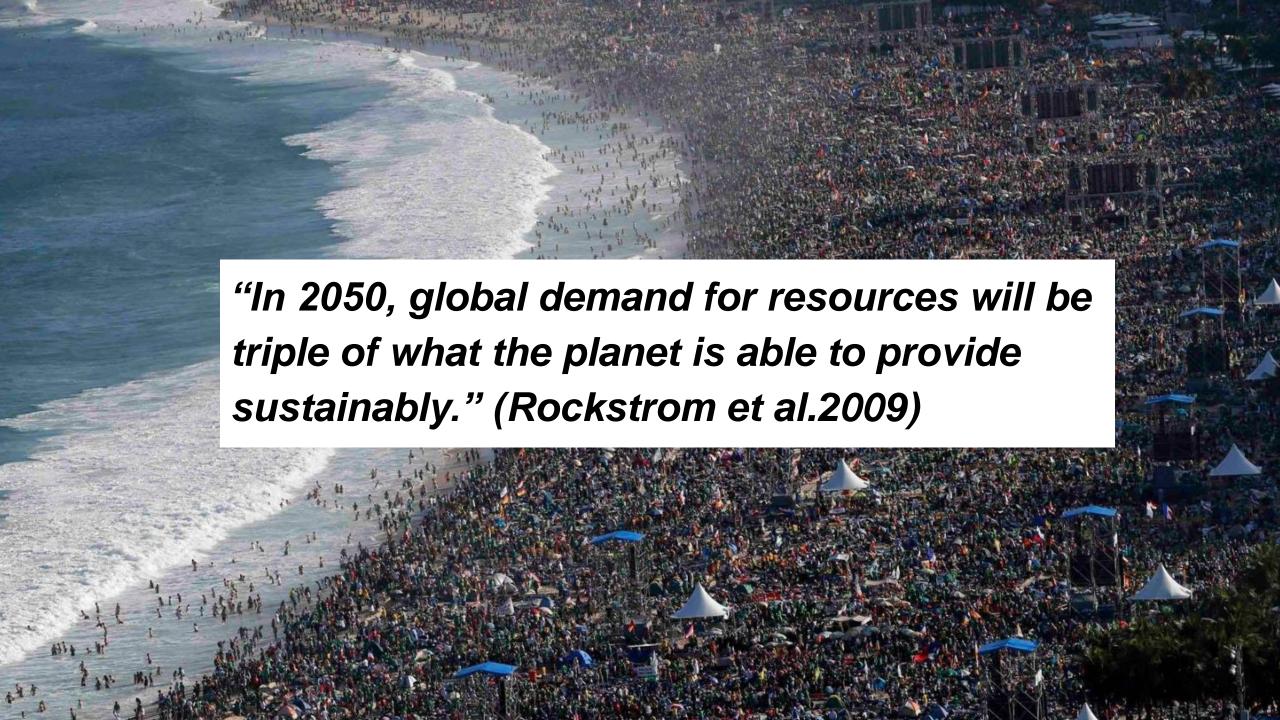


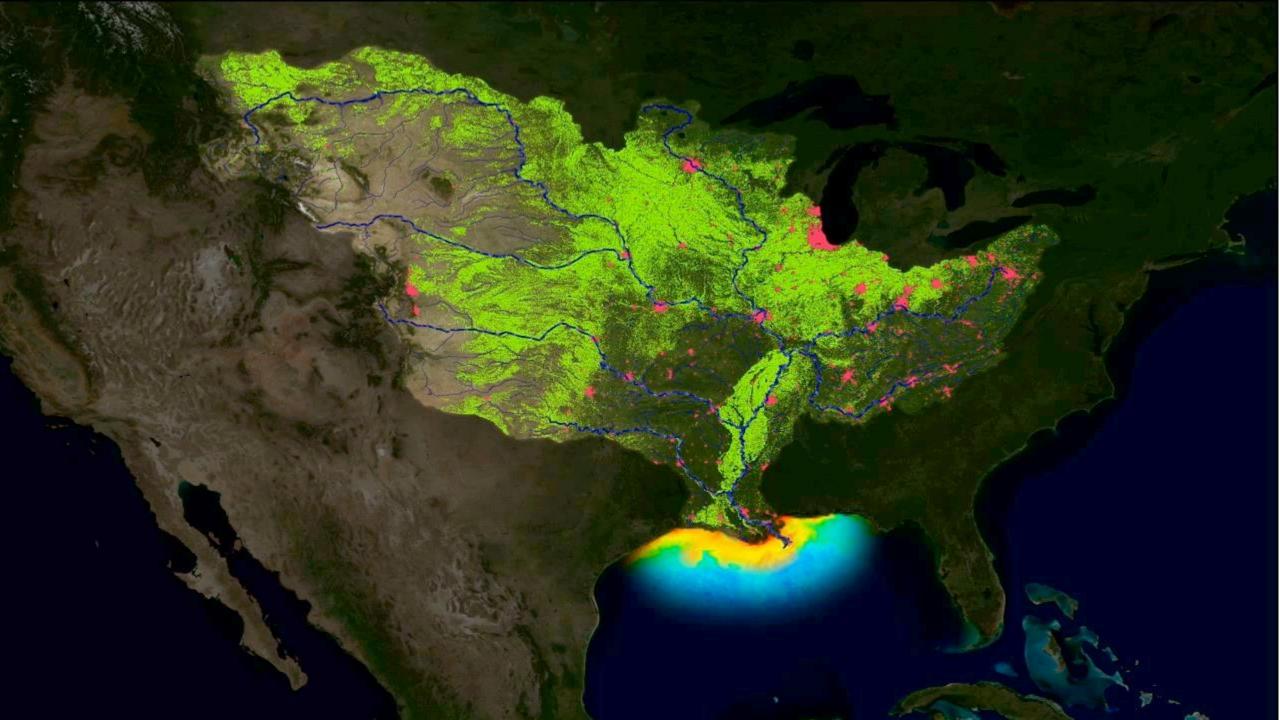
Vojtěch Vosecký | Institut Cirkulární Ekonomiky CAMP, 31st May, 2019





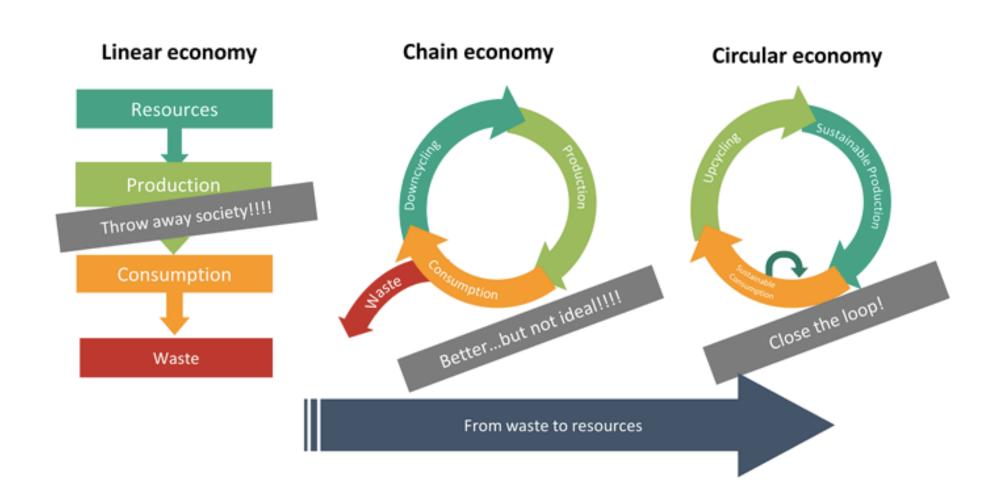






#### **CIRCULAR ECONOMY**

From Waste To Resources...







GOVERNMENT
PUBLIC SPHERE
NGO'S



MUNICIPALITIES



BUSINESS



CITIZENS





#### **ABOUT THE PROJECT**

**GOAL:** TOGETHER WITH CITY DECISION MAKERS, CREATE A CLEAR, COMPELING AND A REALISTIC VISION OF CIRCULAR PRAGUE

**APPROACH**: BASED ON MAPPING THE LOCAL AGENDA, MATERIAL FLOWS, AND DOZENS OF INTERVIEWS WITH COMPANIES, EXPERTS AND BURREAUCRATS, PROPOSE A SEVERAL AMBITIOUS PILOT PROJECTS





#### **CIRCLE CITY SCAN: PHASES**



Socio economic analysis



Material flow *and* opportunity mapping



Action plan

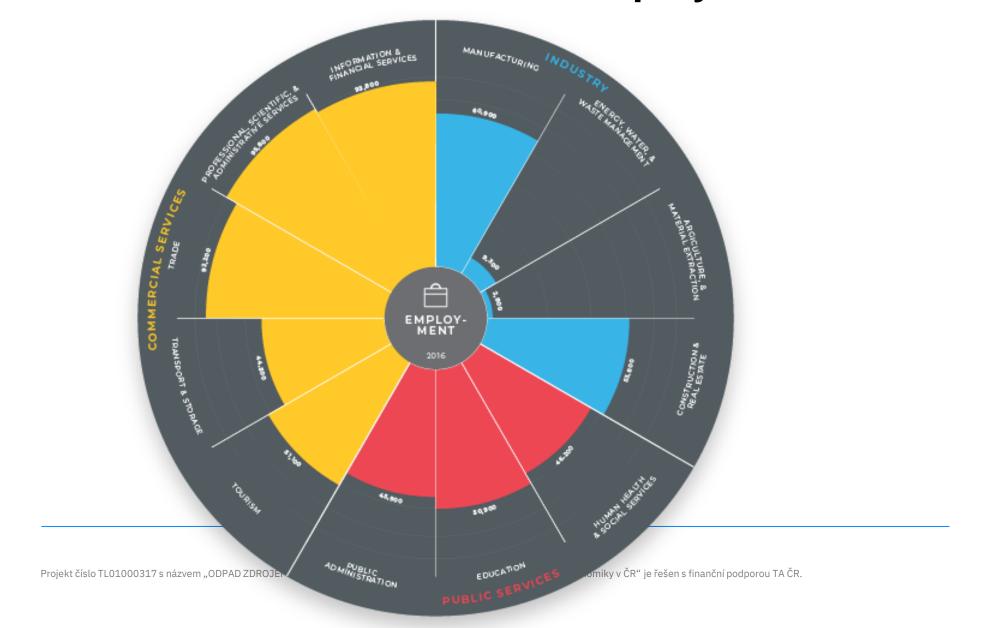


## PHASE 1: ECONOMIC ANALYSIS – added value

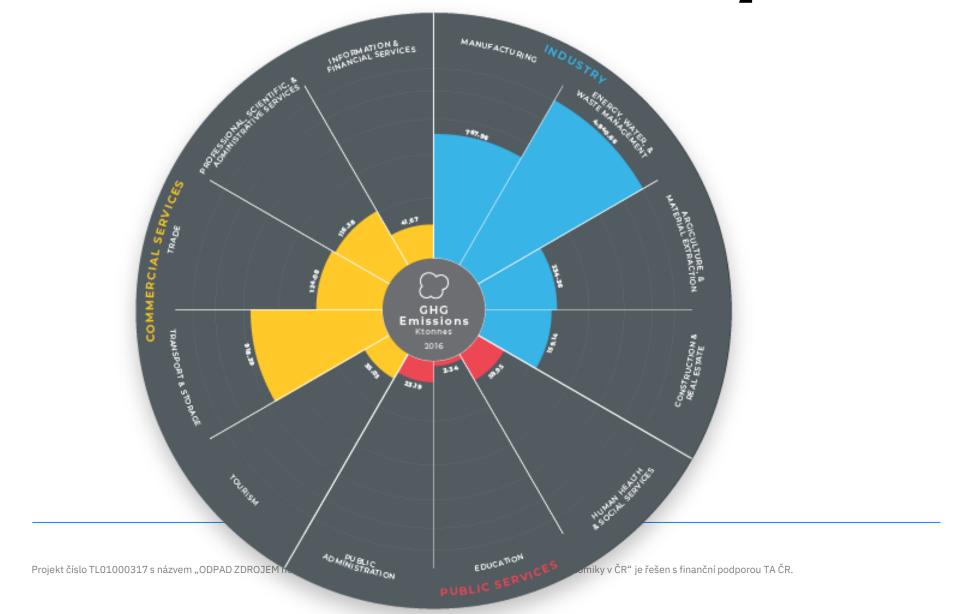




# PHASE 1: ECONOMIC ANALYSIS – employment

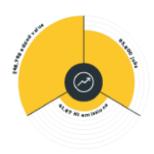


# PHASE 1: ENVIRONMENTAL ANALYSIS - CO<sub>2</sub>



### PHASE 1: LOCAL AGENDA

#### COMMERCIAL SERVICES



INFORMATION AND FINANCIAL SERVICES



PROFESSIONAL, SCIENTIFIC, AND ADMINISTRATIVE SERVICES



TRADE



TRANSPORT AND STORAGE

INDUSTRY



TOURISM



PUBLIC SERVICES



PUBLIC ADMINISTRATION



EDUCATION



HUMAN HEALTH AND SOCIAL SERVICES



CONSTRUCTION AND REAL ESTATE



AGRICULTURE, AND MATERIAL EXTRACTION



MANUFACTURING

Perse Kt emission



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## PHASE 2 – CONSTRUCTION MFA





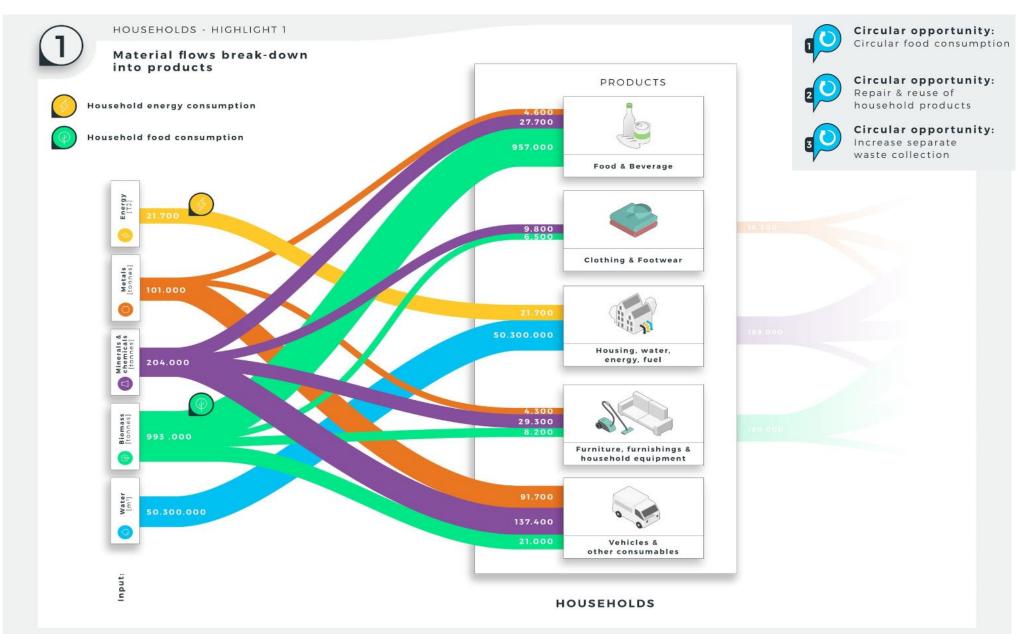
#### PHASE 2 – CONSTRUCTION MFA



- In Prague, we use 13,5 milion tons of construction materials for new buldings every year
- 95 % of materials used for construction are from primary sources
- There is a lack of data, as well as rules that would enable to use the demolition waste as a resource again



## **PHASE 2: HOUSEHOLDS MFA**



CIRKULÁRNÍ HUB PRAHA

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## PHASE 2: HOUSEHOLDS MFA



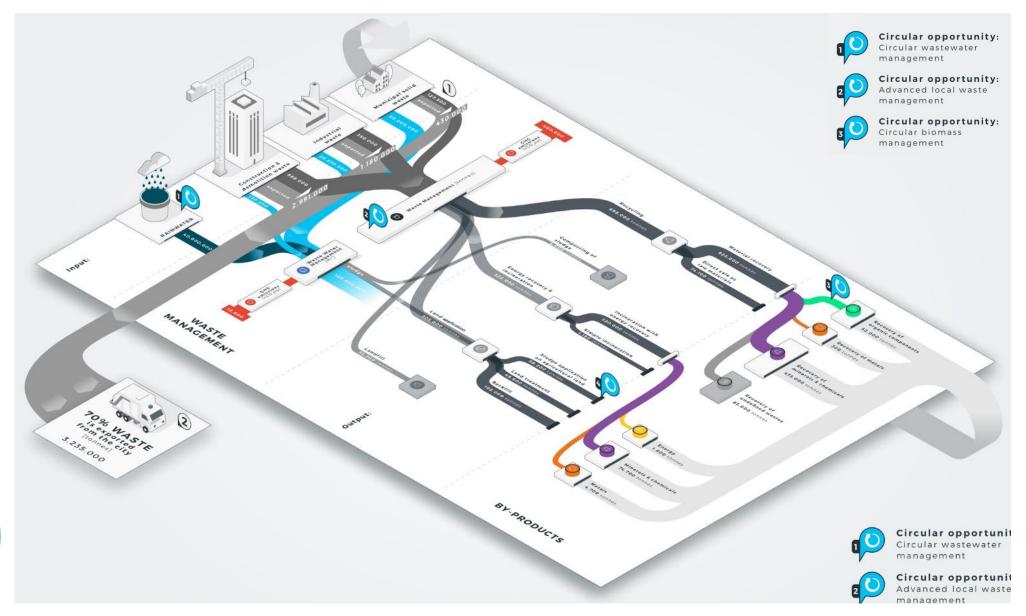
#### PHASE 2: HOUSEHOLDS MFA



- Biomass is the most prominent material used by citizens to sustain their needs. About 180 000 tons of it is wasted / year
- 80 000 tons of furniture, and construction materials is destroyed in take back centres every year
- Prague is one of the worst from all cities in Czech in sorting out its waste



## PHASE 2: UTILITIES MFA





## PHASE 2: WATER, ENERGY, WASTE MFA



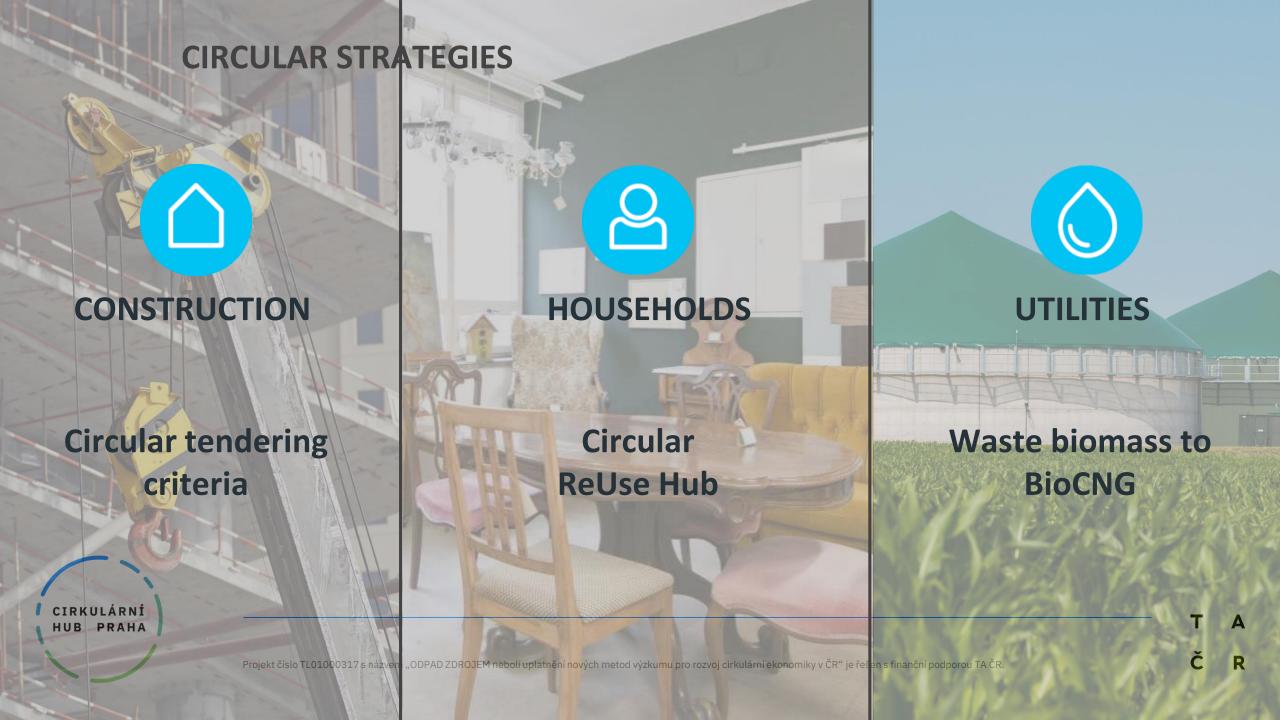
- Vast majority of rainwater (40 000 000 m³) is washed away down the drain to the local waste water treatment plant
- 70 % of all the waste is exported outside of the city boundaries
- 180 000 tons of biowaste from citizens is largely being incinerated



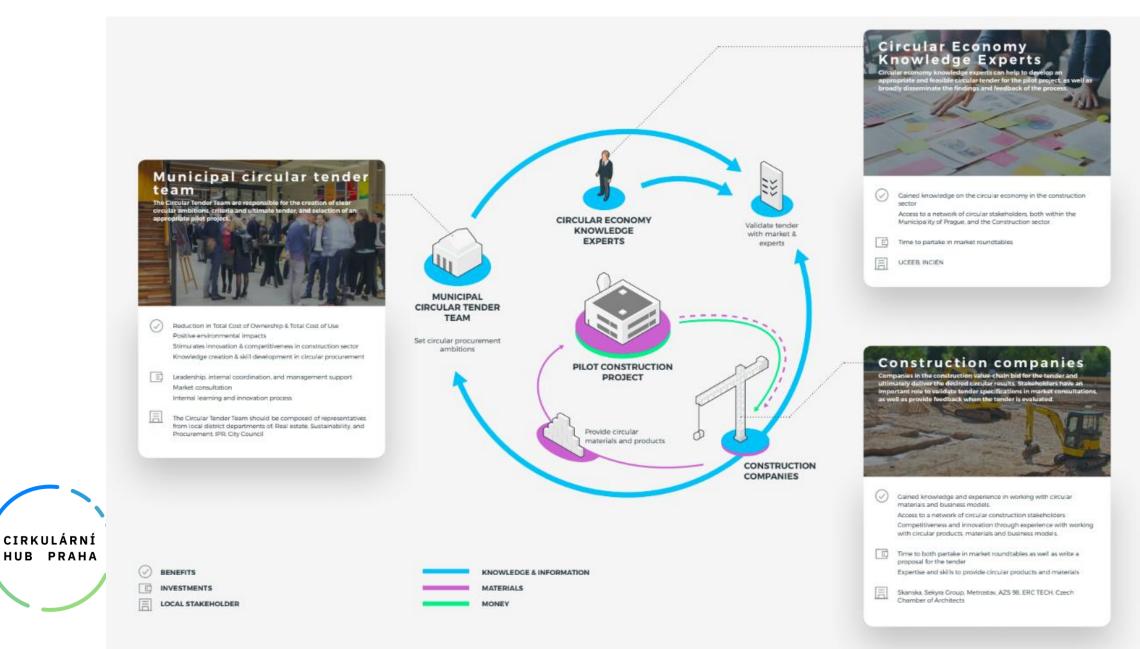
## **PHASE 2: STRATEGIES**



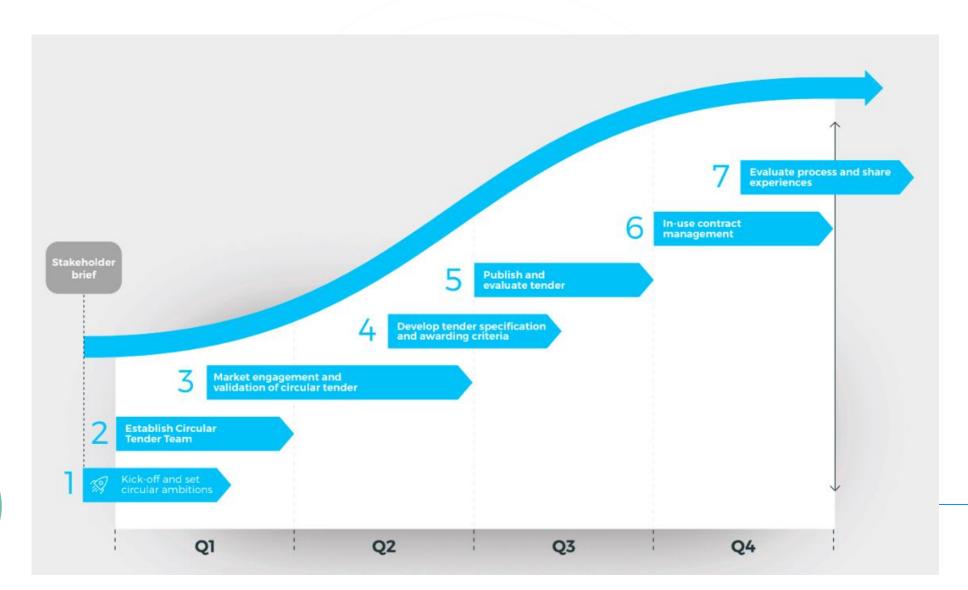




## PHASE 3: ACTION PLAN - CIRCULAR TENDERING



## PHASE 3: ACTION PLAN – CIRCULAR TENDERING

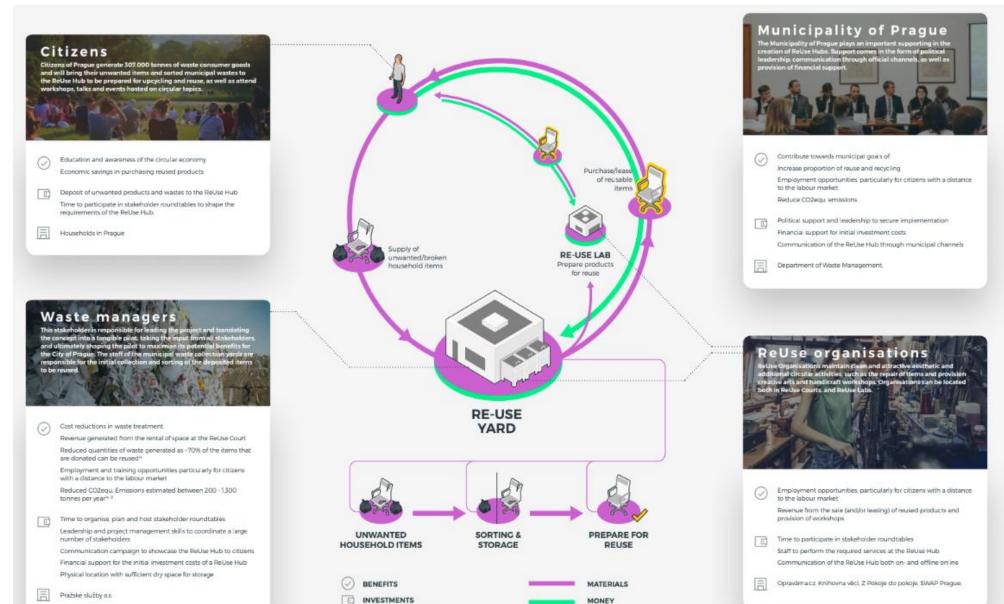




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### PHASE 3: ACTION PLAN – REUSE HUBS

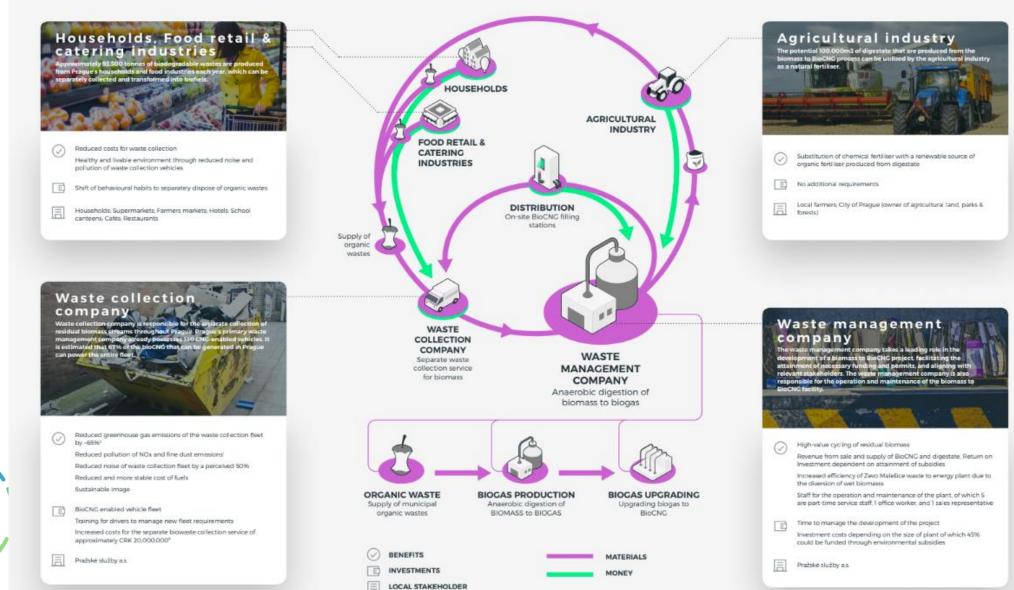


LOCAL STAKEHOLDER

MONEY



## PHASE 3: ACTION PLAN – BIOMASS -> BIOCNG



## **CONCLUSIONS**



O MĚSTĚ

POTŘEBUJI ŘEŠIT

DOPRAVA

CO DĚLAT V PRAZE

KONTAKT

<u> Jvod > O městě > Magistrát HMP > Tiskový servis > Tiskové zprávy</u>

#### Praha zvažuje stavbu městské bioplynové stanice

Rada hl. m. Prahy dnes vzala na vědomí informaci o záměru postavit na území hlavního města bioplynovou stanici. Ta by měla pomoci kvalitně zpracovat a využít biologicky rozložitelné odpady pocházející od obyvatel, živnostníků i z průmyslu. Ty v současné době končí ve spalovně či na skládce, v horším případě často i v kanalizaci. Bioplynová stanice může dodávat biopalivo BioCNG vhodné pro nákladní vozy v městském provozu či může doplňovat bioplyn do městské sítě.

Odpadová bioplynová stanice Romerike

25. března 2019







#### **CONCLUSIONS**

- Important decision makers in the city need to be on board
- Interviews and stakeholers engagement is crucial for lifting projects of the ground
- Data can really help with decision making, but its important to align with city's problems and current atmosphere if you want results fast
- Focus on the follow-up, keep up the momentum, dont produce another study for the drawer







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## **CONTACT**



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