

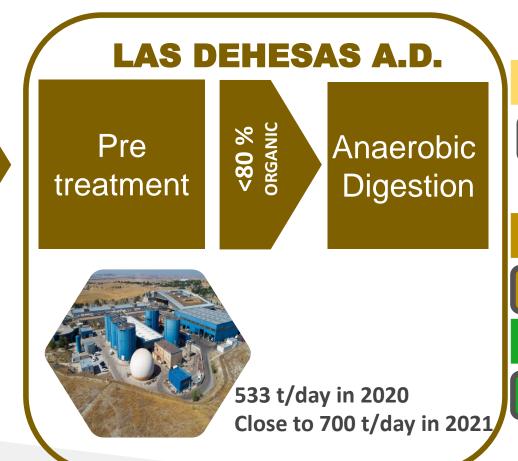


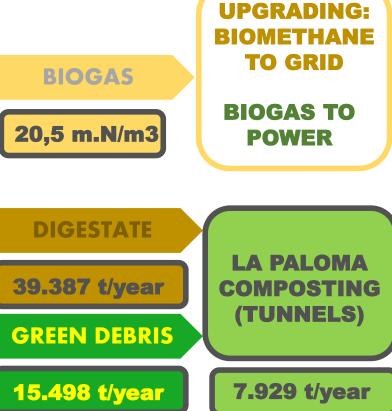
## MADRID: biowaste Status – I

**BIOWASTE PRODUCTION AND TREATMENT – 2020 situation** 







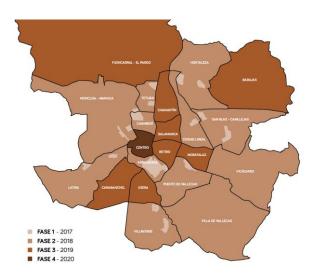


## MADRID: biowaste Status-II

CITIZEN'S ENGAGEMENT --- "ACIERTA CON LA ORGÁNICA" CAMPAIGN

ON GOING ENGAGEMENT AND COMMUNICATION CAMPAIGN – STAGE 4 FACTS AND FIGURES

STAGE 4: 2020 -2021



- Starting: November, 2017.
- 100 % of the city. Last district on September 2020.
- 566 tons/day collected (COVID impact)
- Close to 700 t/day collected (after COVID impact)
- Treatment: AD to produce biogas and digestate.
- Digestate to compost:
  - more than 7.000 tons per year of compost
- Contamination: 20-25 % (improvement)
- Impact:
  - **Direct actions:** more than 43.000 citizens
  - Indirect actions: 2,9 million citizens
- Stage 4 budget: 897.270 €





**ORGÁNICA** 

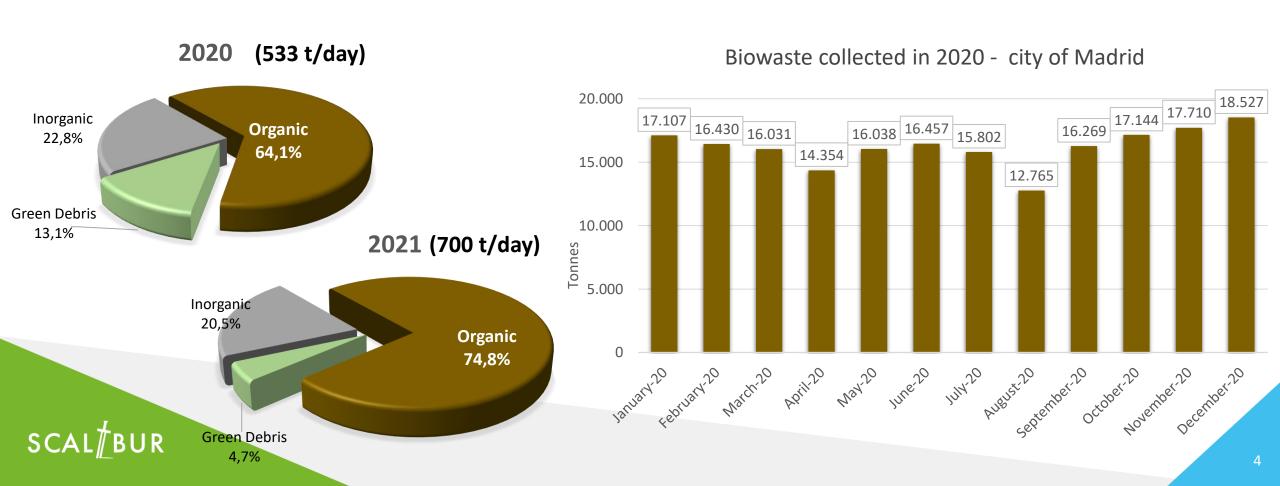




## MADRID: biowaste Status- III

### **HOUSEHOLD BIOWASTE: QUALITY AND QUANTITY**

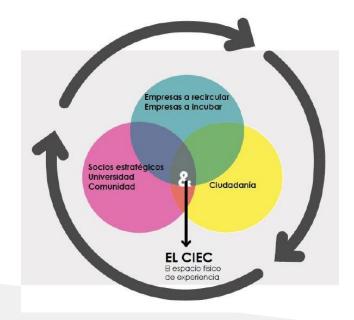
- CHARACTERIZATIONS --> Improvement on the quality of the organic fraction



# Madrid Circular Economy Vision

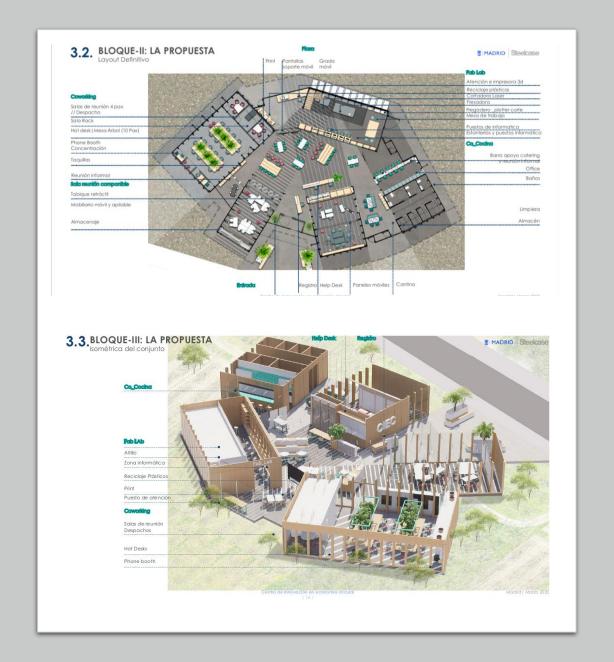
## 6 Main working lines:

- 1. WL1: Creation of a Circular Economy Cluster, centered in:
  - CIEC Centro de Innovación de Economía Circular (Circular Economy Innovation Center)
- 2. WL2: Pilot Projects to Foster chnaging and innovation processes in Circular Economy.
- 3. WL3: Generation of talent in Circular Economy.
- 4. WL4: SME aid Scheme for the next two years.
- 5. WL5: Programs and Innitiatives to raise European Funds.
- 6. WL6: Current Circular Economy Projects.



## WL1: CIEC

- Location: Vicalvaro District
- Construction in progress.
- Start: end of 2021
- Goals:
  - Help the creation of spin-offs
  - Circular Economy training
  - Viability and scalability of CE business models
  - FAbLAb (Fabrication Laboratory)



## WL2: Pilot Projects

Stablishment of a Circular Economy Key Performance indicator system in the city of Madrid.





Pilot Project to make a cultural change in the way the Municipal Markets manage their waste.

Pilot Project to make circular the way the old urban funiture is managed.





Pilot Project to define a SME's support Program to make circular the business models.

# WL3: Generation of talent

- Master Program in Circular Economy, co financed by the City Council and Universidad Politécnica de Madrid. Starting September 2021
- Circular Economy talent attraction hub:
  - Creation of an international CE and Innovation leadership Community.
  - Online Training program on Leadership, Innovation and Circular Economy.
  - Startup Living Lab.



# WL4: SME aid Scheme

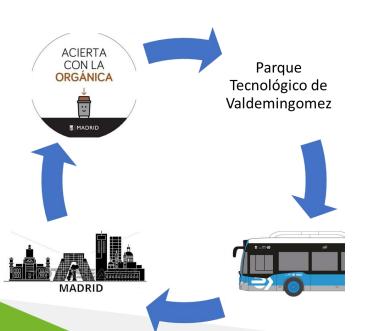
- SME Aid Scheme:
- Goal:
  - boost sustainabilty and circularity in the industry and service sectors
- 11 million € for the next two years.



# WL5: European Funds.

- Programs and Initiatives to raise European Funds.
  - Finished European funded Projects:
    - Mares Project -UIA- 2016-2019. Finished.
  - On going European funded projects:
    - Deep Demonstration Madrid. Climate-Kic. EIT. European Institute of innovation&Technology- Started July 2019
    - Scalibur.
    - · Deep Purple.
    - Insectum.
  - Next Generation funds: Madrid City Council set a funding request to boost Circular Economy in the city

# WL6: Current Circular Economy Projects - I





ESTE AUTOBÚS SE MUEVE CON BIOMETANO GENERADO POR LOS RESIDUOS ORGÁNICOS DE MADRID



#### Biomethane to mobility:

- Biowaste to biomethane
- Biomethane to mobility
- Public buses moved with biomethane from biowaste



# WL6: Current Circular Economy Projects - II









ESTAS
BICICLETAS SE
MUEVEN CON
ELECTRICIDAD
GENERADA POR
LOS RESIDUOS DE
MADRID

#### Waste to mobility:

- Electricity produced from waste
- Madrid City Council ebike system moved by the waste of the city

# Madrid Circular Economy questions



Define a clear biowaste value chain.



EPR scheme for biowaste?



Need of direct funds to be applied by the stakeholders of that value chain: Municipalities



Need of going beyond the traditional way of seeing the meaning of recycling.



Biowaste to compost? Or, is there something else? .... Scalibur, Deep Purple



Need of a secondary raw material market for biowaste by products



End of waste criterio for biowaste.



....











































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@SCALIBUR\_H2020



(in) SCALIBUR project



