

Efficiency is the way to go: get to know Enki

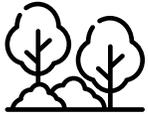


José Pedro Guerra Brito
Project ECO@UTAD Research Fellow

Problems



130 ha campus



The biggest botanic garden
in Iberian Peninsula



Farmland and Farm-Animals



Gardens and Buildings



3.000 Vehicles each day



10.000 People each day

What would you be willing to do?



AIR POLLUTION

Let people have serious
health problems?



WATER SUPPLY

Let either crops or animals
die?



ENERGY CONSUMPTION

Turn off buildings
heating/cooling systems?

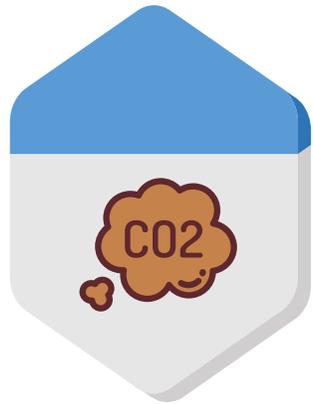


AGRICULTURAL WASTE

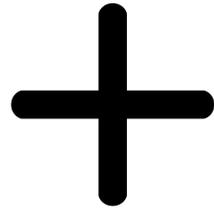
Let it pile up?



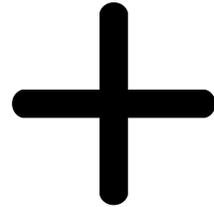
MANAGE



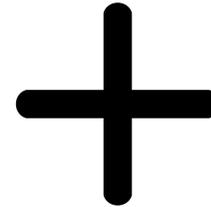
Air Pollution



Water Needs



Energy Consumption



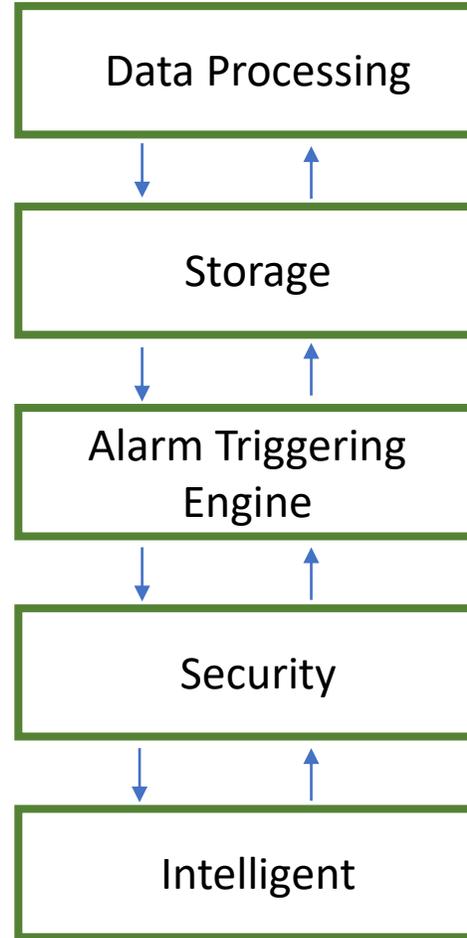
Agricultural Waste

== Enki Platform





Real-time Data Acquisition

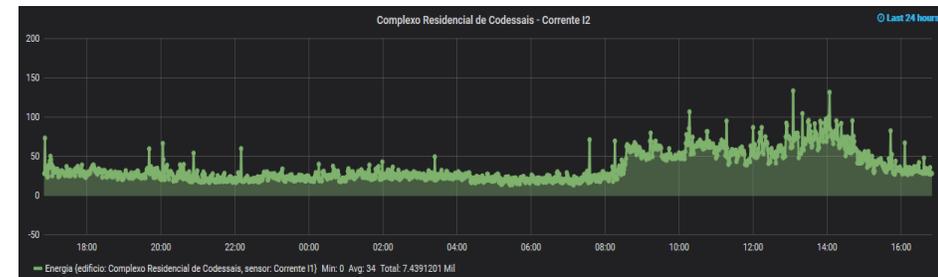


Information Extraction

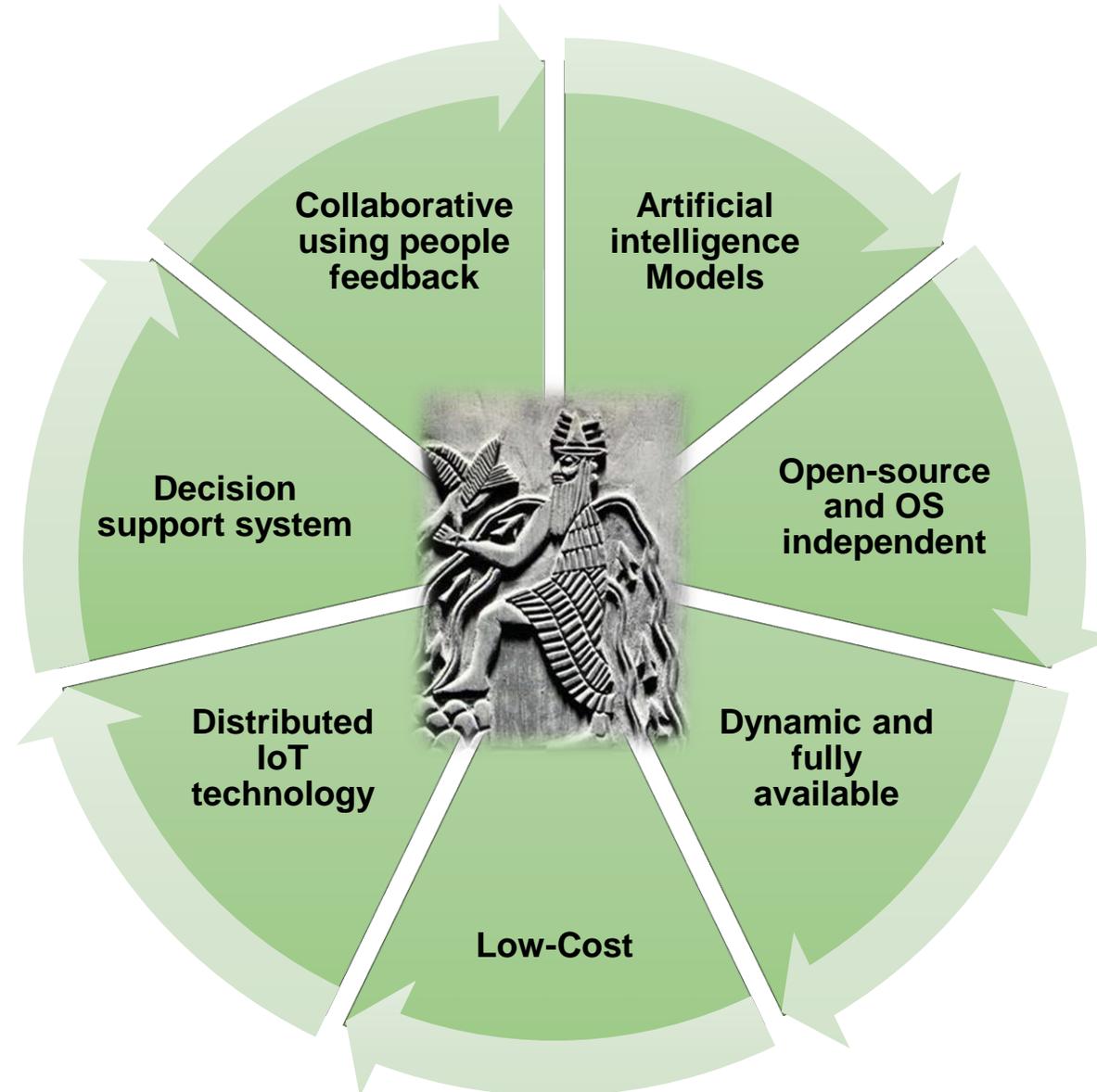
Introducing Enki



Remote Decision-Support System



Why it's different from others



Why it's a real promise



**Deployed at
UTAD'S campus**



**150.000.000
Data Collected**



**1200
Sensors Installed**



Water only on demand
and prioritized



Classify indoor and
outdoor air quality



Increase energy
efficiency



Efficient, cost-effective
and sustainable
management practices

IT WORKS!

Enki is here to help leverage the Planet's sustainability!!



Brian Griffin, Family Guy.

Acknowledgments

ECO@UTAD Project for funding the work
Amadeu Borges (Project leader)
Emanuel Peres
Géant
Barbara Rogoski