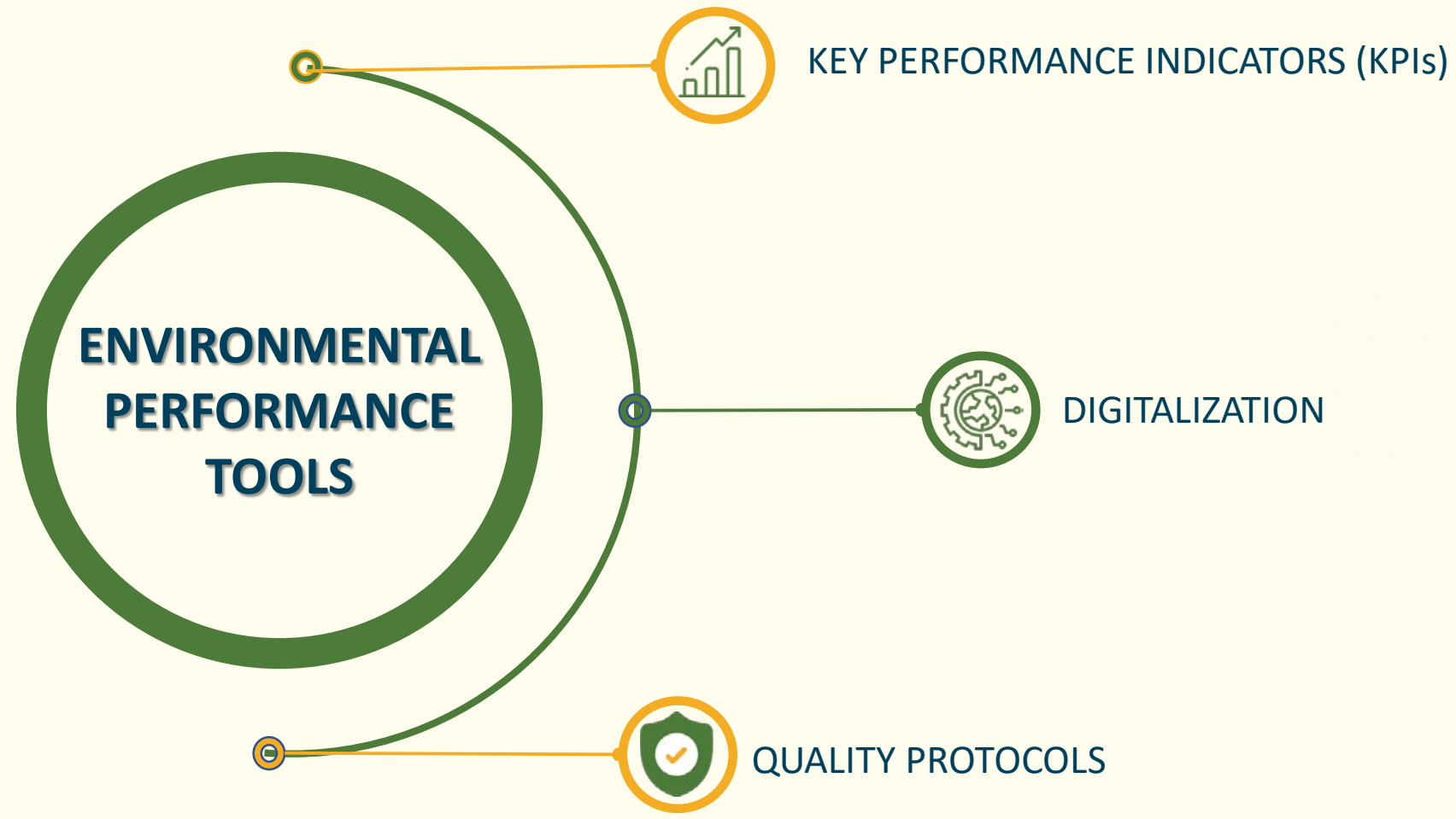


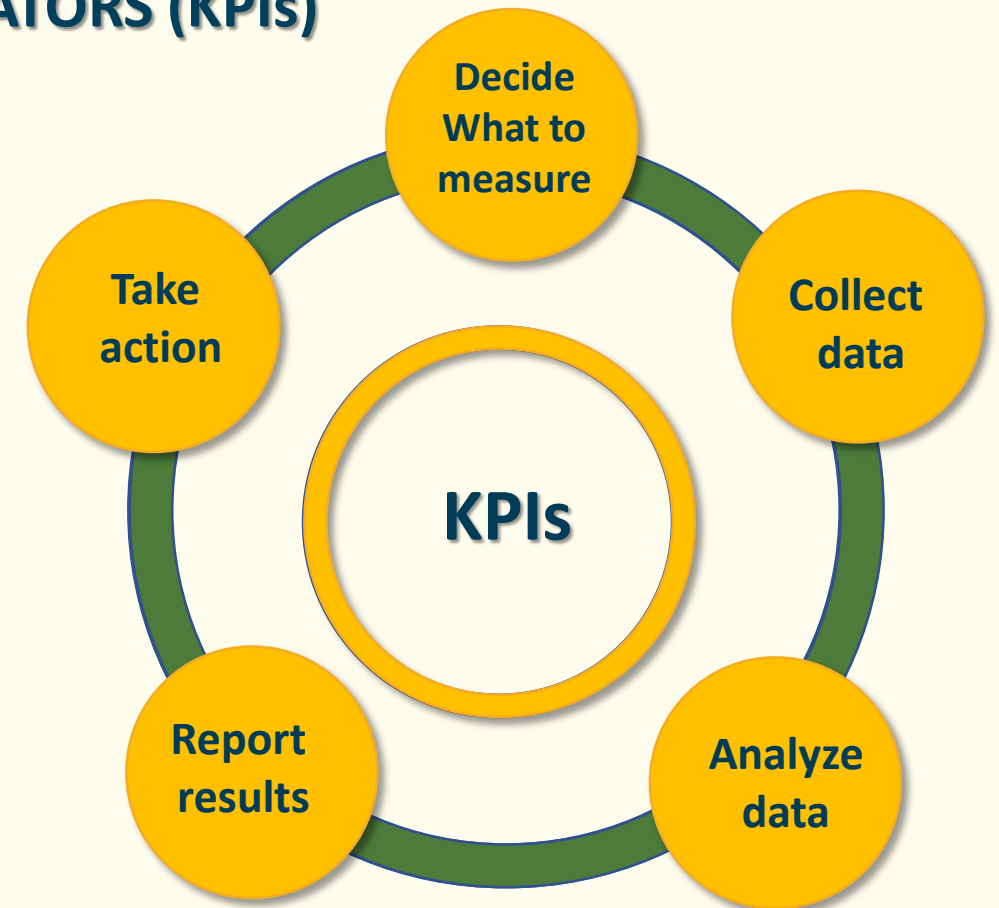
Existing tools used in the framework of environmental performance

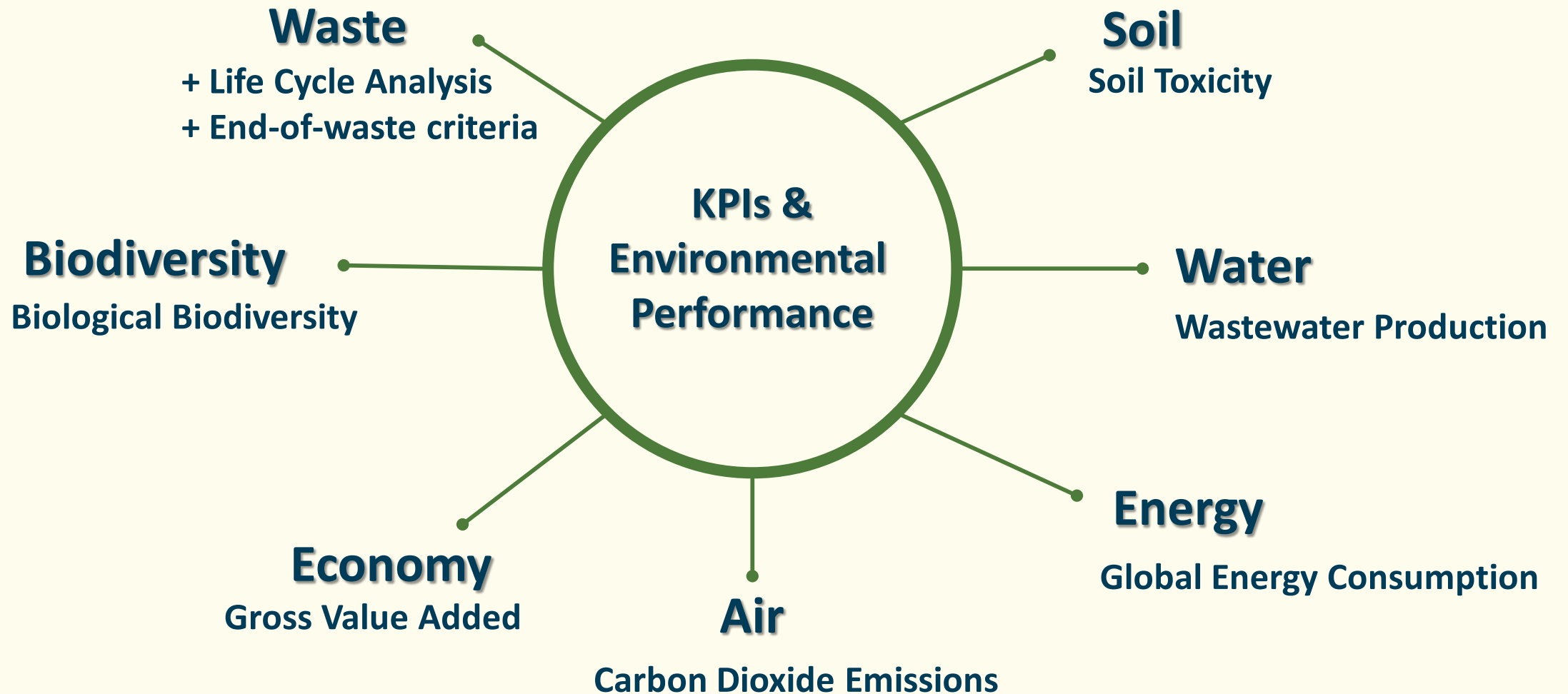
Papamichael I., Chatziparaskeva G., Voukkali I., Loizia P., Pappas G and Zorpas A.A

**Lab of Chemical Engineering and Engineering Sustainability,
Open University of Cyprus, Faculty of Pure & Applied Science**

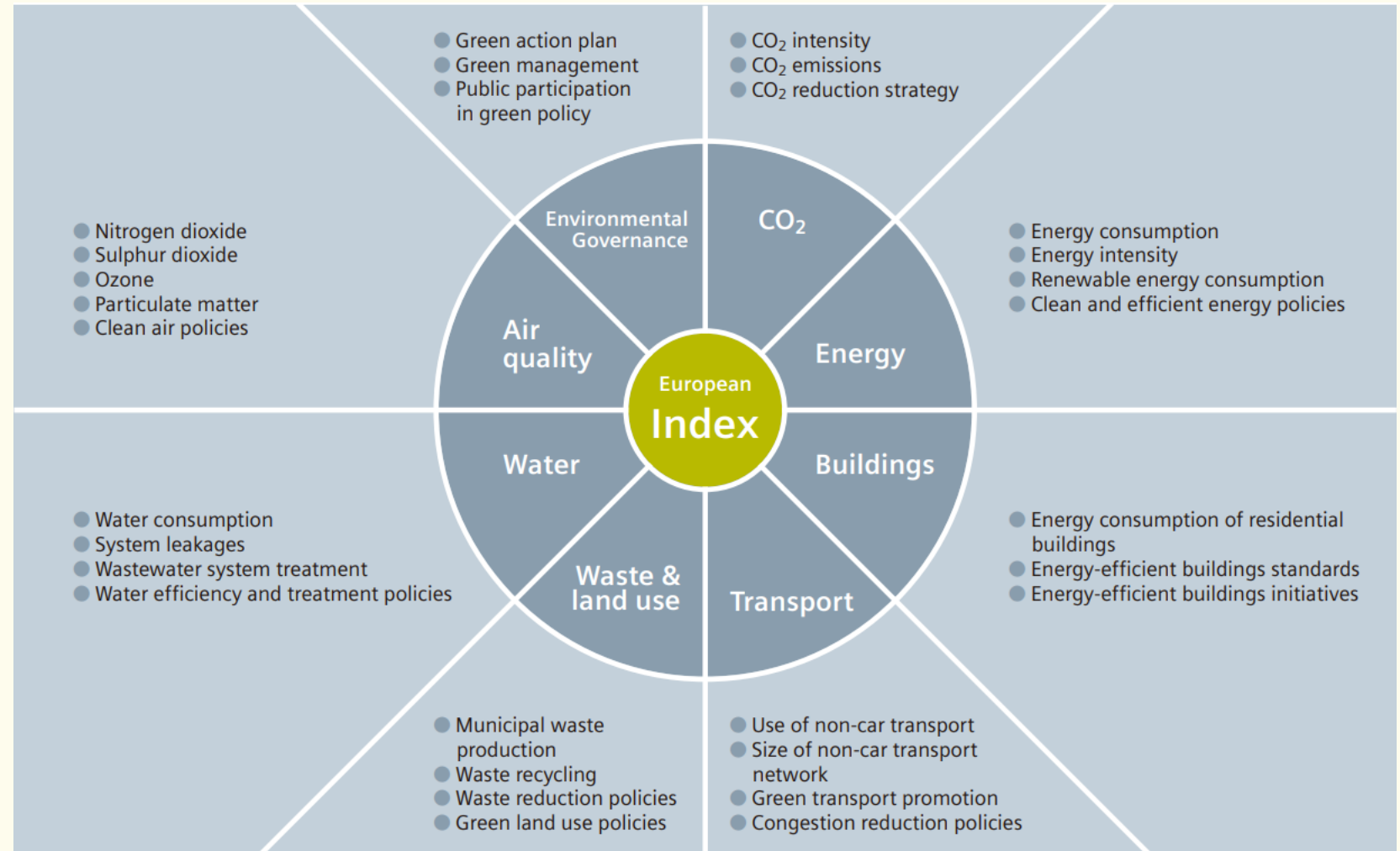


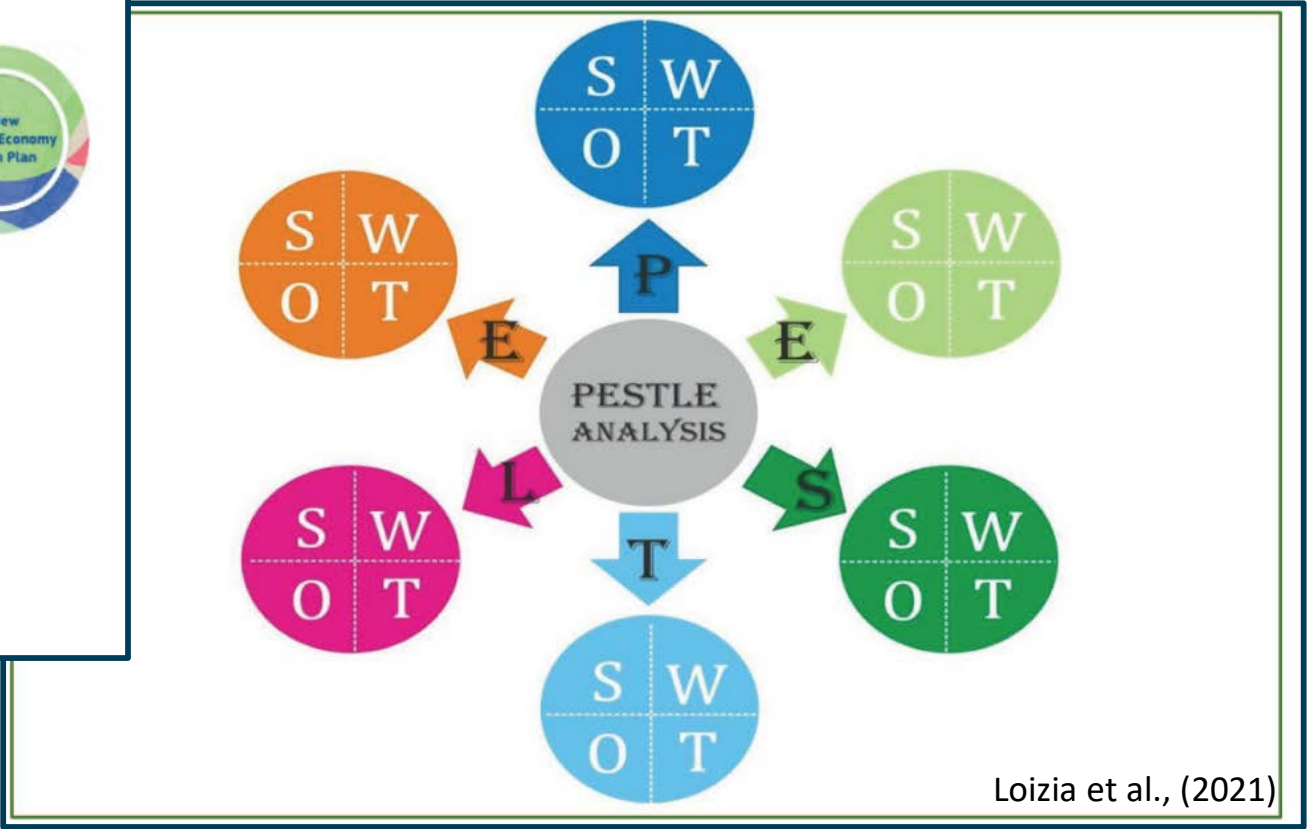
KEY PERFORMANCE INDICATORS (KPIs)





Green City Index
Asian Green City Index





QUALITY PROTOCOLS



ISO 37120: Sustainable Development of Communities

 Economy	 Governance	 Telecommunications
 Education	 Health	 Transportation
 Energy	 Recreation	 Urban Planning
 Environment	 Safety	 Wastewater
 Finance	 Shelter	 Water & Sanitation
 Fire & Emergency Response	 Solid Waste	

100 INDICATORS
17 THEMES

DIGITALIZATION

Wireless technologies



Wifi, GPRS, Xbee, Lora etc.

Internet of Things

Blockchain Technologies,
Artificial Intelligence, Virtual reality, cloud



**OBSERVE
DECIDE
INTERPET
EVALUATE**

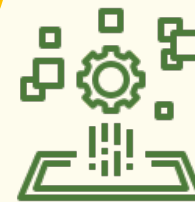
Smart waste systems

Pay as you Throw (weight sensors,
barcode etc.),
Volume based waste fee program
(VBWF)



Waste management platforms

Trash Flow, Waste Logics, Haul-IT, Intelex, RouteOptix,
WasteWORKS, Dakota's Waste Management etc.



CONCLUSION

KEY PERFORMANCE INDICATORS (KPIs)



**ENVIRONMENTAL
PERFORMANCE
TOOLS**

DIGITALIZATION



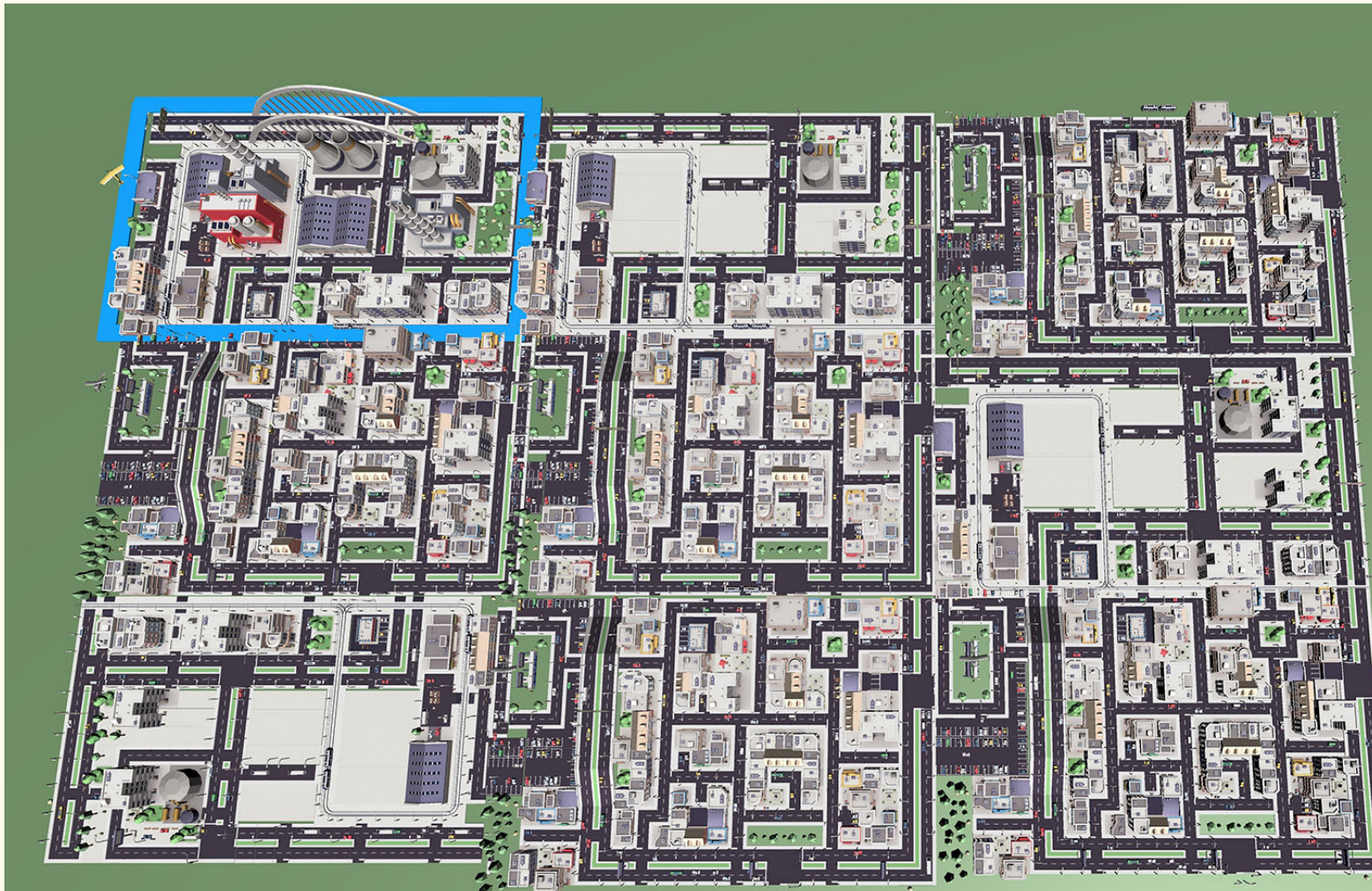
QUALITY PROTOCOLS



SYNERGY

WASTE MANAGEMENT TOOL





information Area₁₁

City Population: 100,000

Selected Area Pop: 2000

Indicators



Thank you for your attention

Existing tools used in the framework of environmental performance

Papamichael I., Chatziparaskeva G., Voukkali I., Loizia P., Pappas G and Zorpas A.A

Lab of Chemical Engineering and Engineering Sustainability,
Open University of Cyprus, Faculty of Pure & Applied Science

Papamichael Iliana
MSc Chemical Engineer
PhD Candidate at Open University of Cyprus
iliana.papamichael@gmail.com
<https://www.linkedin.com/in/iliana-papamichael-432999159/>

<https://www.ouc.ac.cy/index.php/el/>