

Final program 5

18.15 - 18.45 Elzethelia Karga
Ecologic, Berlin, Germany
Contributions to wastewater treatment and reuse of wastewater and sludge
in Mediterranean Partner Countries

18.45 - 19.30 Discussion

19.30 End of Conference

19.45 Bus transport to the Carlsberg hotel

INNOVAMED CONFERENCE
Innovative processes and practices for wastewater treatment and re-use in the Mediterranean region
18 October 2016, Geneva, Suisse

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In their book, Metcalf, & Eddy [\[1\]](#) argue that engineers should use "the world" as a set of reference conditions, rather than their own limited concept of the "real world." Many relevant issues can be addressed through this concept, including those that affect our current infrastructure, limited budget, and/or technologies that may not be suitable for widespread use. Metcalf, & Eddy [\[1\]](#) provided a conceptual model (Fig. 1) for the utility of infrastructural engineering and "infrastructure stretching." The world serves as the point of departure for "critical engineering infrastructures" (CEIs), which can be further specified and targeted as critical infrastructures (CIs) (Fig. 2). If the world can be used as a point of departure, its features can be defined, and if the world is also viewed as a set of reference conditions, it can be used to evaluate and compare current infrastructure conditions with those envisioned in the future. Fig. 1 Conceptual model for infrastructural engineering (From Metcalf, & Eddy, [\[1\]](#)). Fig. 2 Infrastructural engineering and infrastructure stretching (From Metcalf, & Eddy, [\[1\]](#)). We define the practice of infrastructural engineering and infrastructure stretching as "infrastructural engineering with the world (IEWW)". The method is simple: first, define the reference conditions, i.e., the conditions of the world, which serve as the point of departure for the development of the critical infrastructure; then identify the critical infrastructure; and finally, define the components of the critical infrastructure. It can be applied to any engineering discipline, including wastewater engineering, in particular. It can be applied to a range of infrastructure types and functions. Fig. 3 shows the IEWW method applied to wastewater treatment and reuse (WWT). Fig. 3 1.2. The concept of critical infrastructure

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