Creating and implementing a circular scheme for sanitation

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2. The progress of Sanitation: From hygiene to circular economy

1. Health and hygiene: how to protect human beings from diseases carried by dirty water?

2. Environmental protection: how to protect aquatic environments against massive discharges of wastewater?

3. Circular economy: how to recover resources from wastewater of urban areas?

Covid-19 lock-down: continuity of water and sanitation services ensured, to the satisfaction of the French people and the government

Treatment efficiency
BOD removal 96.9% from 2,000 P.E. upwards
3. Wastewater as a local resource of:

- **Water**: e.g. Sables d'Olonne circular water program “substantially increasing recycling and safe reuse globally” (6.3 Target)

- **Energy**: e.g. WWTP of Strasbourg, production of biomethane equivalent to the consumption of 5000 households

- **Fertilizers**: e.g. Manosque Compost Plant – 10,000 tons /year
4. Levers to enhance the recovery:

- Growing Public awareness
- Evolution of Governance, regulations and legal frameworks
- Technological Development
- Better control and operation of sanitation systems
5. Obstacles to remove:

- Cultural reluctance
- Regulatory rigidity
- Economic viability of the projects
- Emerging sanitary concerns
6. How to go further?

- INCREASE AND DISSEMINATION OF KNOWLEDGE
- TECHNOLOGICAL PROGRESS
- CONFIDENCE AND TRUST IN WELL MANAGED SANITATION SYSTEMS: ACCOUNTABILITY OF LOCAL AUTHORITIES AND OPERATORS
- TRANSPARENCY AND COOPERATION BETWEEN STAKEHOLDERS: AUTHORITIES, LOCAL SOCIETY, ENTREPRENEURS, USERS, ...
- POLITICAL COMMITMENT
- EUROPEAN AND NATIONAL FRAMEWORK
- INCREASE AND DISSEMINATION OF KNOWLEDGE
- TECHNOLOGICAL PROGRESS
Thank you

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