



Creating and implementing a circular scheme for sanitation

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FP2E LES ENTREPRISES
de l'eau

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 ?



- 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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