

MYTHBUSTERS

TECHNOLOGIES FOR TODAY'S SANITATION CHALLENGES

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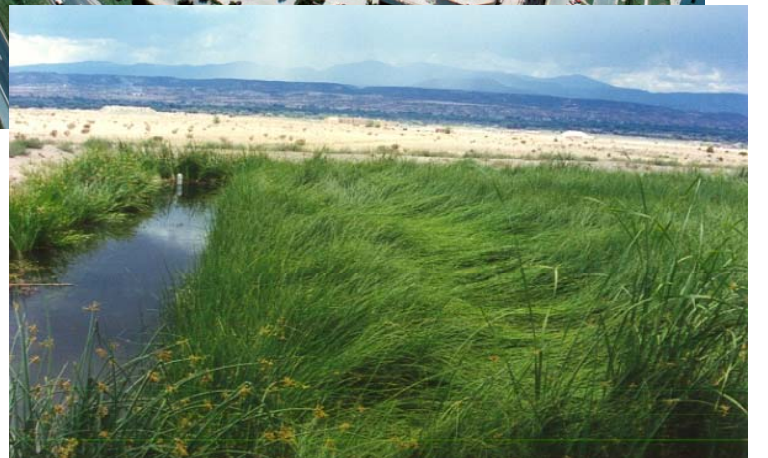
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Did We Make the Right Choice?

- When aliens visit our ruins in the distant future they will see centralized plants of tanks, cookers, stirrers and distribution pipes and marvel at our efficient food distribution system
- Composting toilets providing fertilizer for personal gardens would have resulted in a self-supporting and self-sustaining society



Technology Advances Driven by Regulations and Sustainability

Innovation Driven By :

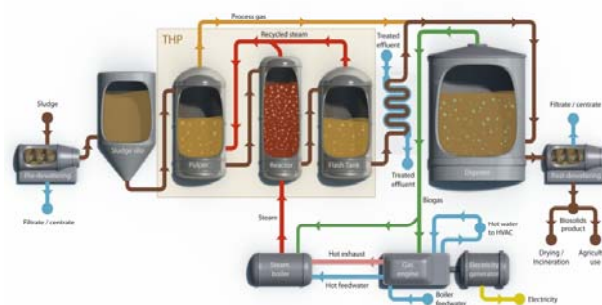
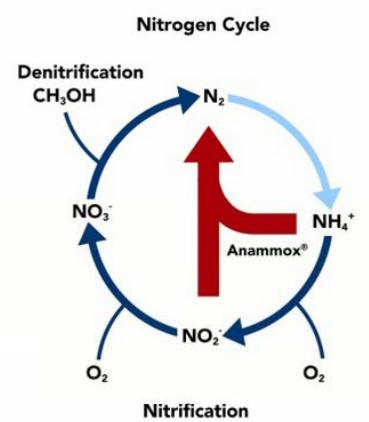
- US and Europe leading regulatory (water quality) driven change
- Europe leading energy efficiency changes
 - Climate Change Act (UK): reduce UK GHG emissions to 80% of 1990 levels
 - Water Framework Directive: basin-level planning

Result for Developing World:

- Result for developing world is that innovative technologies are developed
- Advantage is that new systems can be developed with innovative and efficient technologies
- These technologies are not necessarily more complicated and can achieve better and more efficient treatment

Technology Advances Driven by Regulations and Sustainability

- Liquid Treatment
 - Ballasted Flocculation/BF
 - Activated Sludge
 - Innovative nutrient removal systems: Anammox and other proprietary systems
- Solids Treatment
 - Advanced digestion – thermophilic
 - Hydrolysis
 - Co-digestion



Water Reclamation Plants as Water, Biosolids, Energy, and Nutrient

