

Digitising Water, Sanitation & Hygiene for the Green Transition

ESA Connectivity, Space & Digital Technologies for Green Value

Cheryl Hicks, 3 November 2021

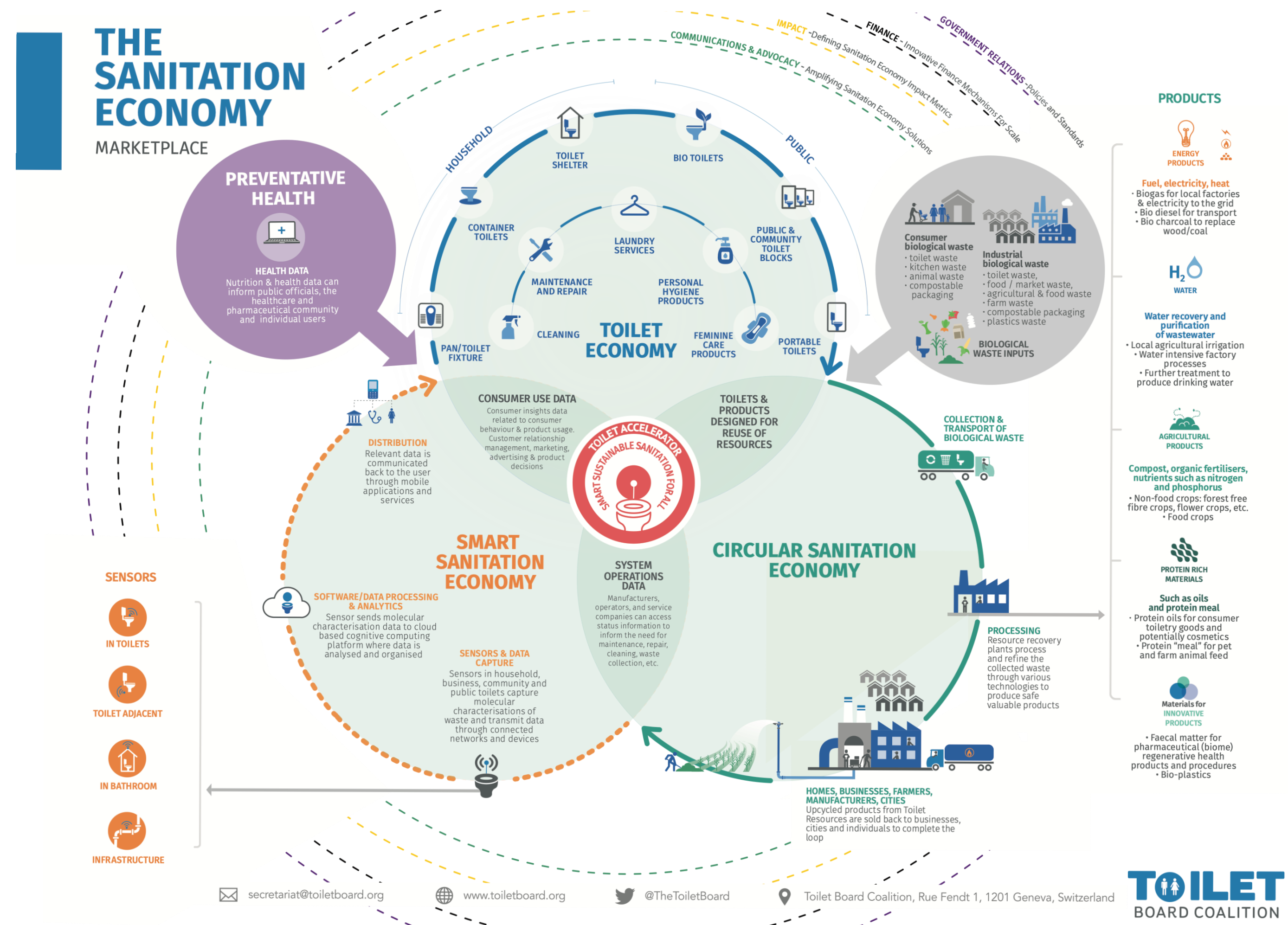
Space for Sanitation

“Today, 2 billion people do not have access to safely managed sanitation.

We need big, and innovative approaches to disrupt our current trajectory.


The Smart Sanitation Economy seeks to leverage new technologies to drive new value from sanitation systems, which is exactly what we aim to do with the ESA.”

*The ESA and the Toilet Board Coalition cooperation started in 2018 to leverage **satellite connectivity**, space data and **digitisation** to drive new **business models** in the sanitation domain.*



Space for Net Positive Water Impact


UN Global Compact
World's largest corporate sustainability initiative



**United Nations
Global Compact**

CEO Water Mandate
Water stewardship initiative of the UN Global Compact


- Demonstrate your commitment to stakeholders
- Connect to our global network of water stewardship experts and practitioners
- Pilot innovative concepts, tools, methodologies, and good practices
- Join Mandate events and webinars



**CEO
WATER
MANDATE**

Water Resilience Coalition
Leadership initiative of the CEO Water Mandate

- Sign the Pledge and commit to ambitious, quantifiable 2030 and 2050 goals
- Join on-the-ground collective action efforts for water resilience and climate adaptation
- Engage at the CEO level



**WATER
RESILIENCE
COALITION**

- **Net positive water impact in over 100 water stressed basins that support over 3 billion people**
- **Equitable and resilient water and sanitation access**
- **150 companies have the potential to influence 1/3 of global water use**

“Two billion people around the world are living in water-stressed areas, and the same will be true of more than half the world’s population by 2050”



Country	Basin	Reference	Quantity	Quality	WASH
Brazil	PCJ	Greater São Paulo	🟠	🟠	🔴
India	Cauvery	Karnataka + Bangalore	🔴	🔴	🔴
India	Ganges	Uttar Pradesh	🔴	🔴	🔴
India	Krishna	Maharashtra + Pune	🔴	🔴	🔴
Mexico	Rio Grande/Bravo	Monterrey	🔴	🟠	🟡
Mexico	Rio Verde	Moctezuma	🔴	🟡	🟠
Mexico	Rio Lerma	Guadalajara	🔴	🟡	🟠
South Africa	Vaal System	Johannesburg	🟠	🟡	🟡
South Africa	Berg-Breede	Cape Town	🔴	🟡	🟠
USA	California	San Francisco + LA	🔴	🔴	🟢
USA	Mississippi	Full Basin	🔴	🟠	🟢