

20th AfWA International Congress and Exhibition 2020 Breaking new grounds to accelerate access to water and sanitation for all in Africa

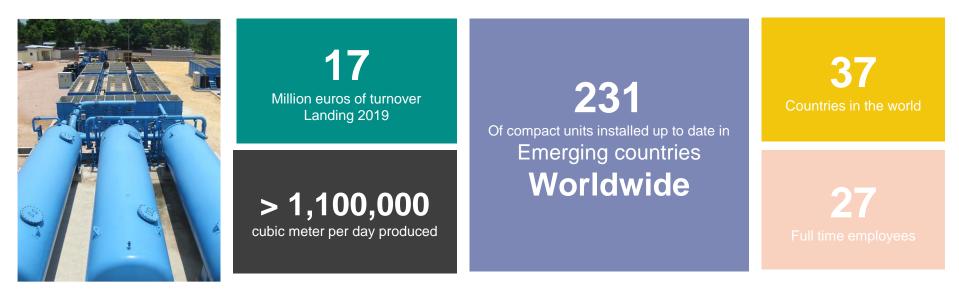
UCD SMART VILLAGE & MULTI-UCD

23rd – 24th February 2020, Kampala, Uganda

PATRICK SUHR – SUEZ UCD TECHNICAL AND INNOVATION MANAGER



What is UCD and what is a UCD packaged plant ?



 UCD : Unité Compacte Degrémont



• What is UCD and what is a UCD packaged plant ?

Small or large capacities, single or multi package plants (x40)





A worldwide market



A dedicated and motivated team within SUEZ



What is UCD and what is a UCD packaged plant ?

One video tells more than 1000 words...







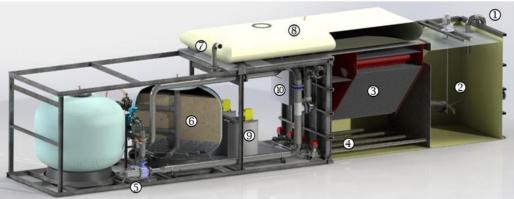


 Our new challenge, called UCD SMART VILLAGE: provide global solutions for access to water, sanitation and essential services to decentralized population

Drinking water :

UCD FAST : a new product highly standardized, play-andplay, off the shelf, with energy savings, for 15 to 50 m3/h capacity





15 m3/h prototype

UCD FAST 40' for 50 m3/h

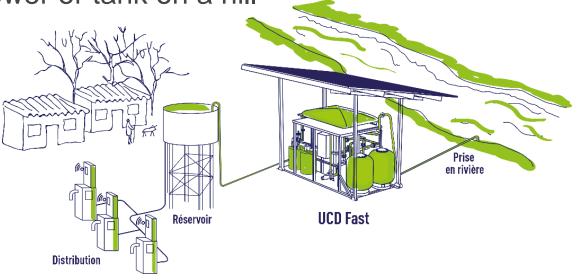
- New possibilities are offered :
 - Energy autonomy thanks to shelter with solar panel
 - Digital and smart tools for operation monitoring



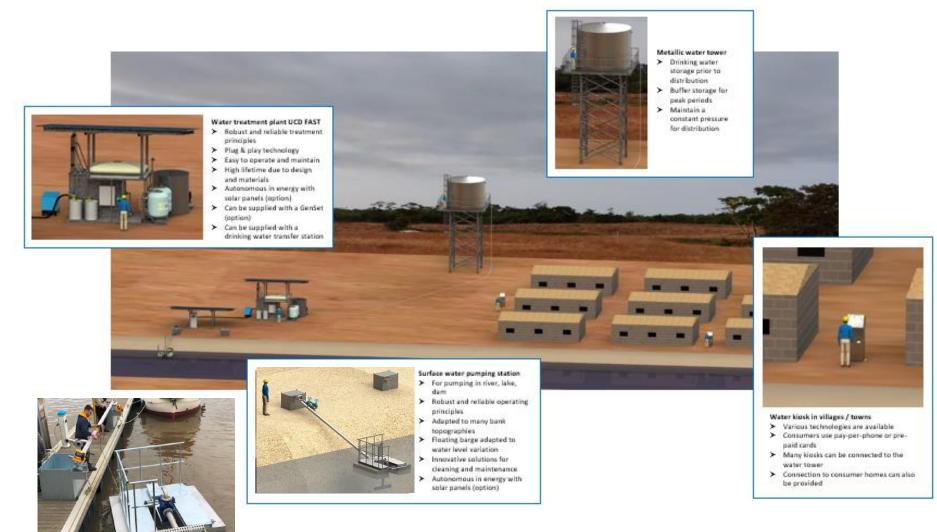


SUEZ is able to supply each step of a complete water treatment line including :

- In-house pumping station floating on rivers or dams
- Conventional water treatment
- Drinking water pumping station
- Storage in water tower or tank on a hill
- Public fountain







- New possibilities are offered :
 - Public fountain can be smart with pay-by-phone or prepaid cards, and data reporting, or can be traditional with a fountain operator



• Sanitation:

For isolated areas where no sewage network exists, UCD aims to develop a micro anaerobic digestion of feces

Objectives :

- 1. Fix the issue of sanitation management
- 2. Generate energy through biogas production

For sanitation:

The main requirements to create a virtuous circle:

- Organize collection of feces from latrines in accordance with local habits and logistic possibilities
- Implement a treatment must be simple, robust and efficiency
- Make available for population the generated biogas for cooking, lighting or electricity production
- Make available fertilizer with reduced pathogens









• Organic matter up-cycling:

After sanitation treatment is validated, anaerobic digestion will be tested on organic matter up-cycling

Objectives:

- 1. Produce energy as biogas from organic wastes
- 2. Make it available for population and create possibilities of micro-exchanges with drinking water production line: for example, vouchers of biogas water electricity



• Demonstrators:

Thanks to important investments of the SUEZ innovation program, 2 demonstrators will be implemented in Ivory Coast to test in real conditions :

- The drinking water global treatment line in 2020
- The sanitation and organic treatment with anaerobic digestion in 2021

- The UCD team is available for any further information on UCD SMART VILLAGE or UCD package plants







- Nuno AGUILAR, Commercial Director, contact : nuno.aguilar@suez.com
- Mohamed NADAH, Business developer Africa, contact : mohamed.nadah@suez.com
 - Patrick SUHR, Technical manager, contact : patrick.suhr@suez.com



20thAfWA CONGRESS

-YOU ARE WELCOME -