DATA-DRIVEN WATER SECURITY WITH BLUEMIX APACHE SPARK SERVICE

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1.8 BILLION PEOPLE lack access to safe water

2.4 BILLION PEOPLE live without adequate sanitation

842,000 PEOPLE DIE yearly due to diarrhea caused by inadequate drinking water

SIERRA LEONE

(МО, 2016)
IMPACT TO DATE

OVER 2,300
SAFE WATER + SANITATION PROJECTS BUILT

OVER 128,000
PEOPLE PROVIDED ACCESS TO SANITATION

OVER 3,200,000
PEOPLE PROVIDED ACCESS TO SAFE WATER

LIBERIA
LIVING WATER TREATMENT SYSTEM

• Rugged
• Easy to set-up
• Sustainable (operational for up to 20 years)
THE SOLUTIONS

SOLAR POWER

Enables us to:
• Serve more people
• Reach remote areas
• Minimize costs
SMART WATER DISPENSERS
• 1.8 billion lack access to safe water
• 2.4 billion lack access to safe sanitation
• 70% of economic losses due to droughts and floods
• $ invested -> $$ returned

(WHO, 2016)
(UNISDR, 2008)
(WHO, 2012)
(World Bank, 2015)
Can we predict water insecurity or drought from smart water dispensers, weather data, and mobile surveys?
Delivering solutions for global customers using open & emerging technologies, providing business value and solving business needs.

Provide a primary feedback mechanism to IBM SWG for emerging technology from actual client engagements. Advocate emerging technologies both internally to IBM and externally to clients and partners.
• Trial different business models
• Automate watercard credit system
• Target promotional activities
NEXT STEPS IN PARTNERSHIP

- Conduct additional field trials in Tanzania
- Explore future opportunities with new products
- Refine solutions to achieve sustainability
THANK YOU.

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