WASH IN HCF GLOBAL LEARNING EVENT KATHMANDU, NEPAL





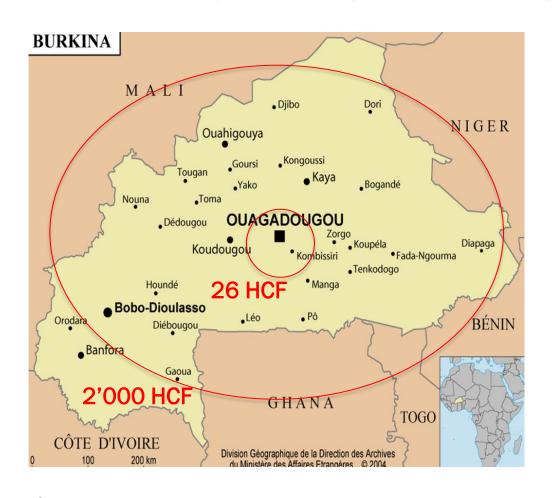








NOSOCOMIAL INFECTION PREVENTION IN BURKINA FASO



1. GEOGRAPHICAL

- 274 200 km2
- 19 Mio habitants
- 55% under 15 year-old
- Life Expectancy: 57

2. ACTIVITIES

- Pilot Programme (2010-2015):
 26 Heath care facilities
- Scaling up (2016 onward): 63
 Sanitary Districts + 9 Regional Hospitals Centers (2'000 HCF)







INTRODUCTION TO BURKINA FASO HEALTHCARE SYSTEM



HEALTH CARE SYSTEM:

1st: 1'698 CSPS (rural areas)

43 Medical centers

47 District hospitals

2nd: 9 Regional hospitals

3rd: 4 University hospitals

PROGRAMME OBJECTIVES

- ✓ Improve disinfectant quality
- Improve hospital disinfectant autonomy
- ✓ Increase disinfectant use at different level of the HCS
- ✓ Increase cost-efficiency ratio







INTRODUCTION TO BURKINA FASO HEALTHCARE SYSTEM













METHODOLOGY / THEORY OF CHANGE

Intervention

 CHLORINE GENERATORS ARE INSTALLED IN 26 HEALTH CARE FACILITIES IN BURKINA (representative sampling of Burkinabe healthcare structures)

Outputs

- TRAINING on technology & hygiene practices for Ministry/other stakeholder
- MONITORING & EVALUATION of hygiene practices

Outcomes

- AVAILABILITY of adequate chlorine volume for HCF, at cheaper price
- INCREASE USE of chlorine for disinfection purpose
- Integration of NATIONAL EXPERTISE (service provider)

Impact

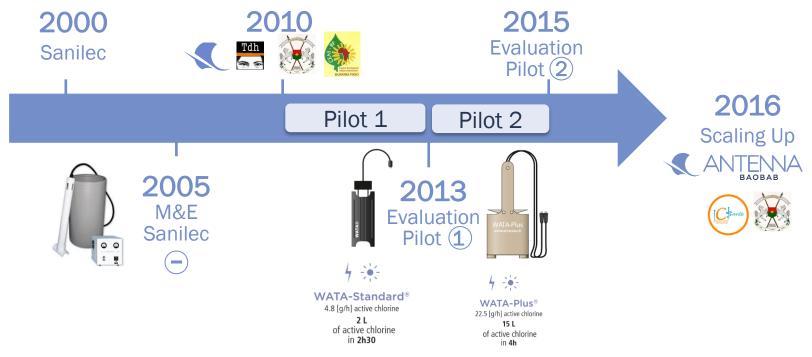
REINFORCE HYGIENE PRACTICES & PREVENTION OF NOSOCOMIAL DISEASES







IMPROVE ACCESSIBILITY, QUALITY & SUSTAINABILITY OF HEALTHCARE SYSTEM









SUSTAINABILITY RELY IN GOOD SUPPLY CHAIN, MAINTENANCE AND PEER TRAINING

PRODUCTS

WATA Reagents

Off-Grid Solution

M&E



WATA

Devices

WATA-Plus® WATA-Standard® 22.5 [g/h] active chlorine 4.8 [g/h] active chlorine of active chlorine of active chlorine in 2h30

















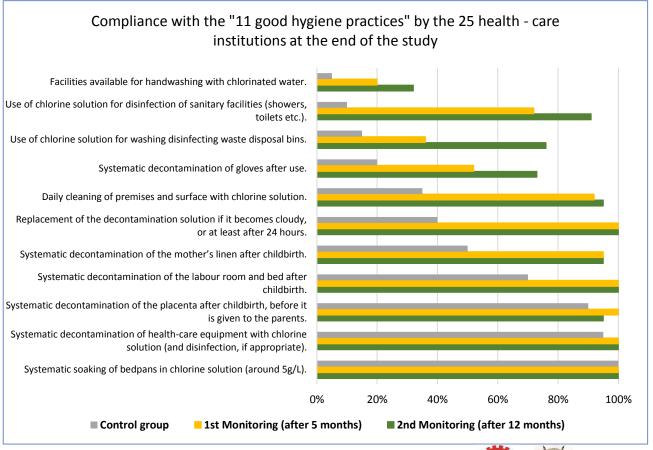
Installation

Training

INSTALLATION &

MAINTENANCE

OUTCOME 1: HYGIENE PRACTICES MEASUREMENT



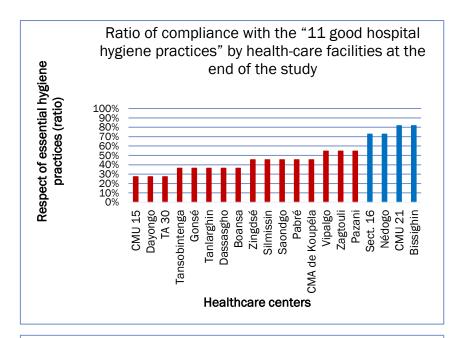
HCF compliance/T otal





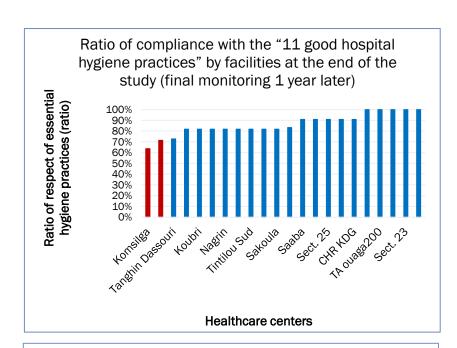


OUTCOME 2: HYGIENE PRACTICES IMPROVEMENT



WITNESS GROUP

Ratio: 4/20 comply with at least 8 best practises 20% of good practises



PILOT GROUP

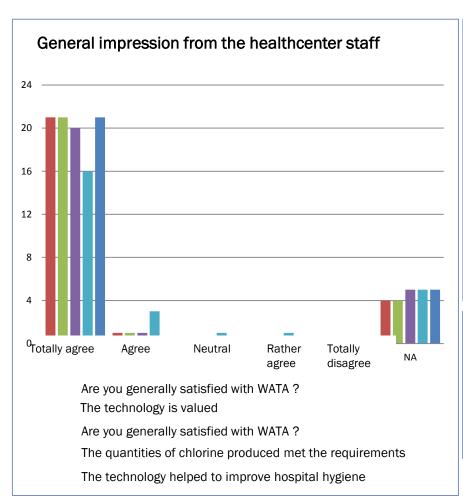
Ratio: 20/22 comply with at least 8 best practises 90,9% of good practises

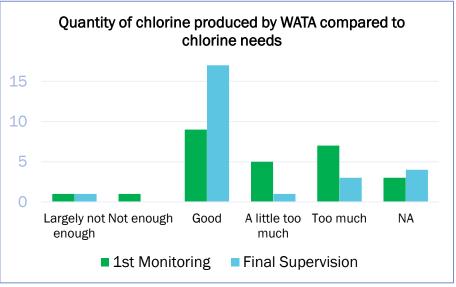






STRENGTHS & CHALLENGES





POSITIVE FEEDBACK AT LOCAL LEVEL Qualitative Review (26 staff of hospital) USE, VOLUME, EFFICIENCY, HYGIENE







STRENGTHS & CHALLENGES

CHALLENGES (PILOT 1 and 2)

PILOT 1:

- Need for larger range of device to fit the requirements of each health center (different volume of production/ day)
- Working with different electricity sources (ongrid/off-grid) and develop a timer for a better use on site (more reliable)
- Supply chain for reagents of the chlorine concentration (quality control)
- Staff Capacity building is crucial

PILOT 2:

- Consistent data monitoring due to staff changes and displacement in the country
- Work out a financial mechanism to ensure maintenance fund (and ROI) on a long-term basis.

LESSONS LEARNT AND STRENGHTS

- New range of devices have brought alternative option for off-grid health care centers (WATA- Plus, Midi-WATA and Maxi-WATA)
- WATA devices are accepted and pertinent (Satisfecit from the Ministry of Health 2015)
- Best practises have been monitored during the phase 2 (with great improvement)







NEXT STEPS & RECOMMENDATIONS

Économies réalisées par la production du chlore avec les WATA	par L de chlore	par production	par jour
WATA-Std	289,6 CFA	579 CFA	1 738 CFA
WATA-Std solaire	295,4 CFA	591 CFA	1 772 CFA
WATA-Plus	289,3 CFA	4 340 CFA	8 679 CFA
WATA-Plus solaire	295,8 CFA	4 437 CFA	8 874 CFA
Midi-WATA	288,0 CFA	8 641 CFA	17 282 CFA
Maxi-WATA	289,4 CFA	17 364 CFA	34 728 CFA

Note: Les valeurs "par jour" ont été obtenues en considérant la capacité du WATA-Std à 3 productions journalières, soit 6 L, et la capacité du WATA-Plus, du Midi-WATA et du Maxi-WATA à 2 productions journalières, soit respectivement 30 L, 60 L et 120 L. (Mars 2015)

SAVING REALISED

2,7 to 53 Euros per day (compared with Aquatabs and other local bleach products)

Seuil de rentabilité	en L de chlore	en productions	en jours
WATA-Std	964 L	482 prod	161 jours
WATA-Std solaire	2 284 L	1 142 prod	381 jours
WATA-Plus	4 051 L	270 prod	135 jours
WATA-Plus solaire	7 623 L	508 prod	254 jours
Midi-WATA	5 964 L	199 prod	99 jours
Maxi-WATA	6 975 L	116 prod	58 jours

Note: Le tableau indique le nombre de litres, le nombre de productions ou le nombre de jours nécessaires pour atteindre le seuil de rentabilité de chaque appareil WATA par rapport aux coûts du Burkina Faso. (Mars 2015)

RETURN ON INVESTMENT (on devices only)

Less than a year (2014) (even for larger off-grid devices)







TECHNOLOGY INSIGHT







4.8 [g/h] active chlorine 2 L of active chlorine in 2h30

PRICE: 480 USD/ UNIT

NOT INCLUDING TRANSPORT TO LOCATION, SOLAR PANEL OPTION AND TRAINING







SHORT SUMMARY

- √ 90,9% of health care centers are implementing on a continuous and constant basis at least 8 best Hygiene practices (Among the "11 Hygiene best practices definition)
- ✓ 75% of health care centers have improved the disinfectant quality
- √ 70% of health care centers are autonomous 12 month after the pilot 2.
- ✓ Saving realized: 2,7 to 53 Eur. saved per day
- ✓ WATA ROI (return on investment) is less than 1 year







NEXT STEPS: SCALING UP!

- ✓ Building a reflection technical team (at the ministry level with local implementers)
- ✓ Health Care Programme Equipment Report (currently being drafted)
- ✓ Supply chain constraints for implementation and continuous capacity building/maintenance.
- ✓ Funding opportunities (in Burkina Faso)
- ✓ Training of health care agents
- ✓ Maintenance (preventive and curative)
- ✓ Monitoring and evaluation (FACET)











REFERENCES / CONTACT









BURKINA FASO

N°2015-0023/MS/CAB

CERTIFICAT DE SATISFECIT

Je soussigné Doctour Amédée Prosper DJIGUIMDE, Ministro de la Santé du Burkina Faso, certifie être satisfat de la collaboration entre le Ministère de la Santé et la Fondation Antenna Technologies représentée par le Chargé de programme déquipement en électrochlorateurs. Altenna-Wata⁸ dans soixante (63) districts sanitaires et neuf (99) Centres Hospitaliers Régionaux.

En foi de quoi, je délivre ce présent certificat de satisfecit pour servir et valoir ce que de droit.

Fait à Ouagadougou, le 15 mai 2015

Dr. Amédée Prosper D.IIGUIMDE

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MERCI BEAUCOUP! THANK YOU FOR YOUR ATTENTION





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