

Content of presentation

- Background
 - Introduction of HydroNET
 - Demonstration at IUCMA
- Roll-out to all CMA's: implementation plan
- Tasks and responsibilities per partner
- Activity plan for the coming months
- Any other business

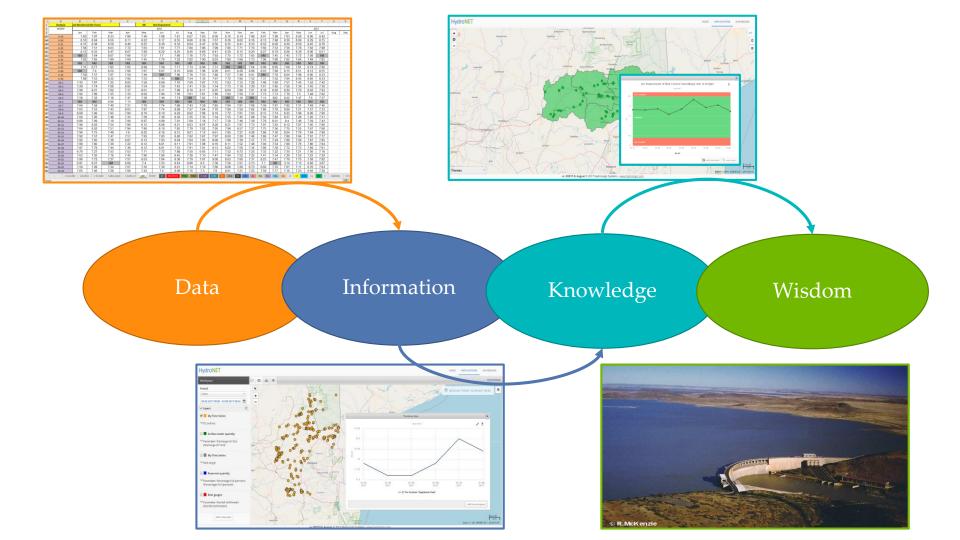




Towards climate resilience:

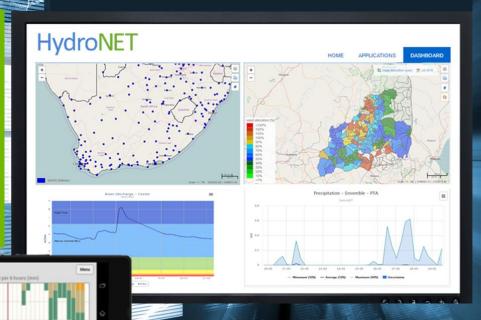
- Operational decision support tools for the sustainable management of water resources
- Reporting tools to inform internal/external stakeholders

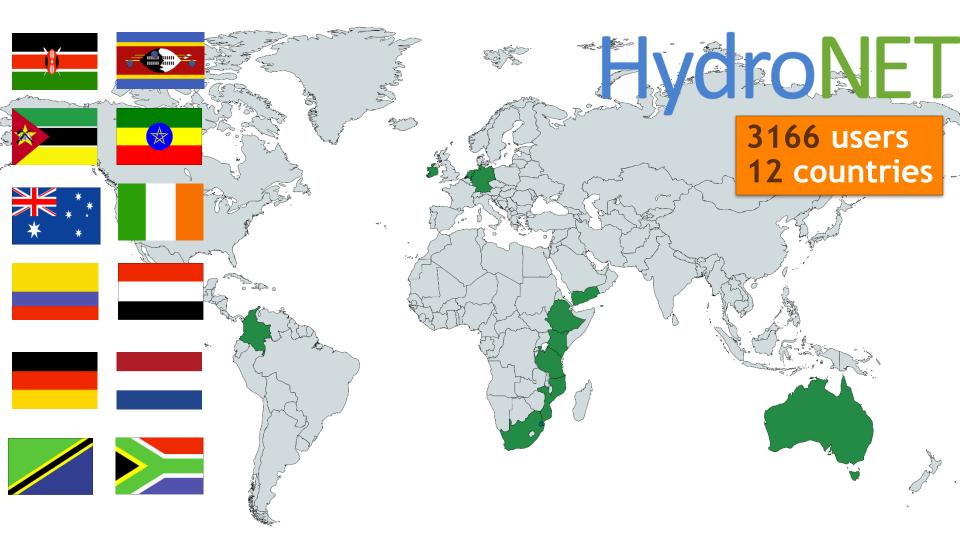




HydroNET

Web-based operational decision support system that transfers weather & water data into sophisticated dashboards and reports





2013: Demonstration of the HydroNET Water Control Room for IUCMA







HydroNET Water Control Room tailored for CMA's

Status (STEEP) KPI's of CMS

Automated reports for stakeholders

Tailored dashboards per colleague Status water quantity & availability



Water use versus allocation

Weather and Climate Information

Status of Water quality

Training and capacity building IUCMA







Conclusions

- HydroNET Water Control Room tailored to the needs of South African CMA's
- Successfully operational for IUCMA, PUCMA and other SA clients
- All Accessible via web:
 - No software or hardware required
 - Free automatic upgrades paid by the HydroNET community



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3 Implementation stages

Stage 3

Water quantity information

Status KPI's of CMS

Water quality information



Stage 2

Water use by irrigation

Farms with over allocation

Stage 1

Weather and Climate Information

Configuration stage 1: 3 months Weather & Climate applications



• Information and report requirement workshop



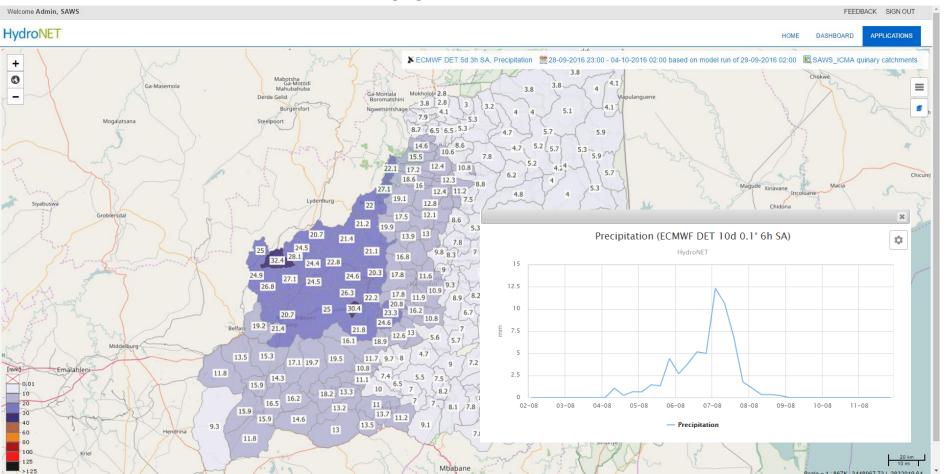
- Configuration of Weather Applications
- Stations Application
- Weather Forecast Application
- RainMap Application
- Weather Control Room
- Weather Reports



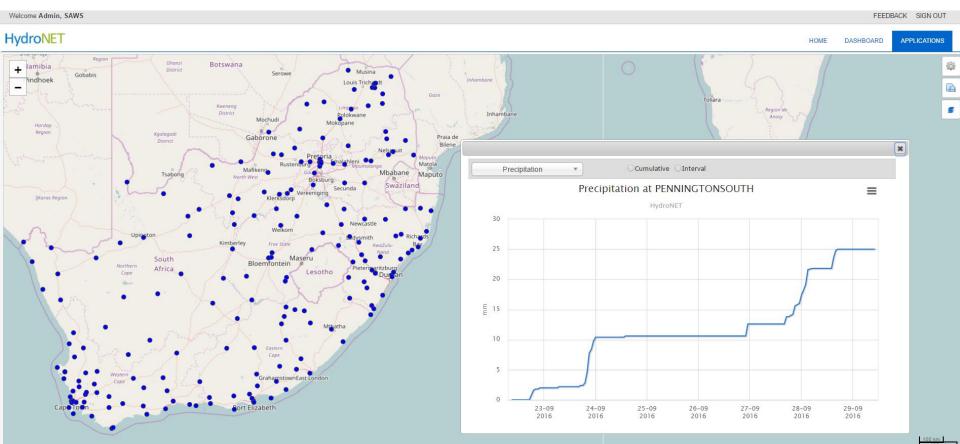
Training Weather applications



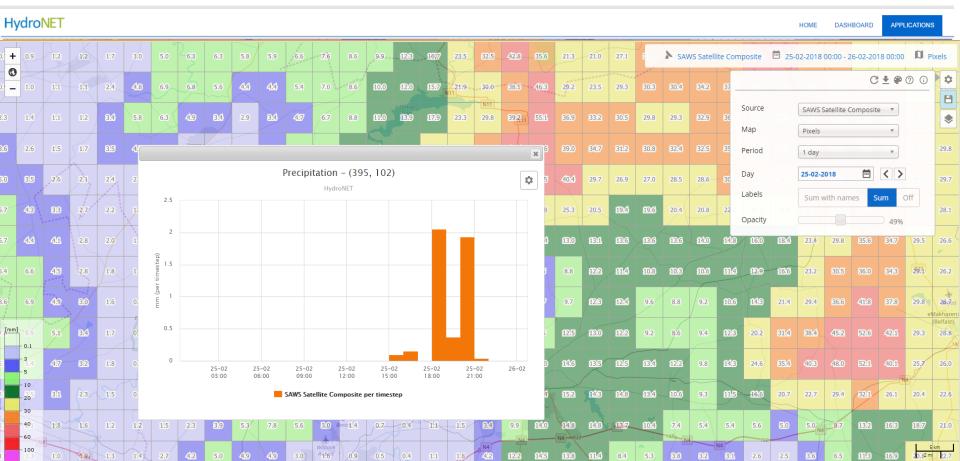
Weather forecast application



Weather Stations Application



RainMap application



Configuration stage 2: 3 months Water Auditing application



Establish connection with eLEAF data



 Configuration of allocation per farm and per quinary

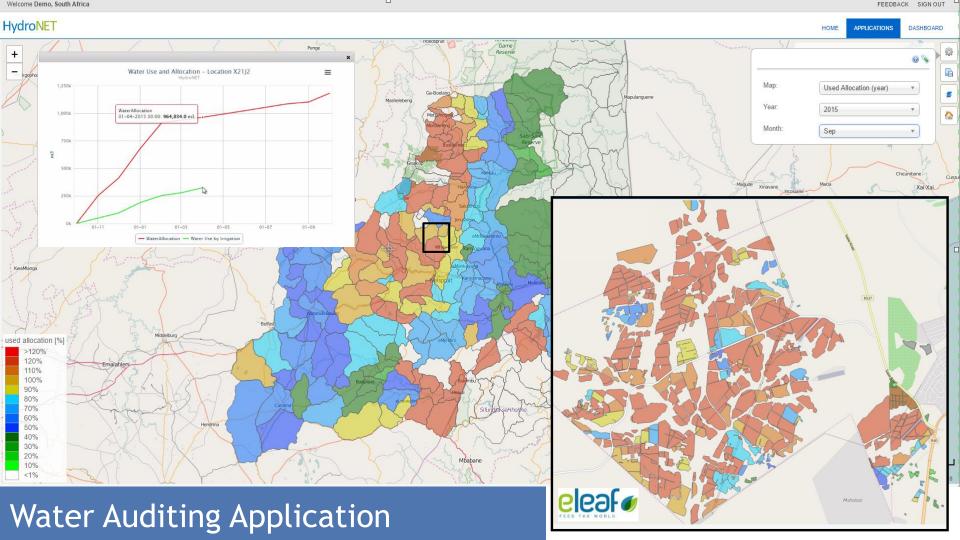


Configuration of Water Auditing application



Training Water Auditing application





Configuration stage 3: 6 months Water Management applications



- Establishment of data connection with relevant DWS databases
- WMS, WARMS, NGM, Hydstra



- Configuration of Water applications
 - HydroView, HydroWatch, HydroReport
 - Water Control Room
 - Water Management reports



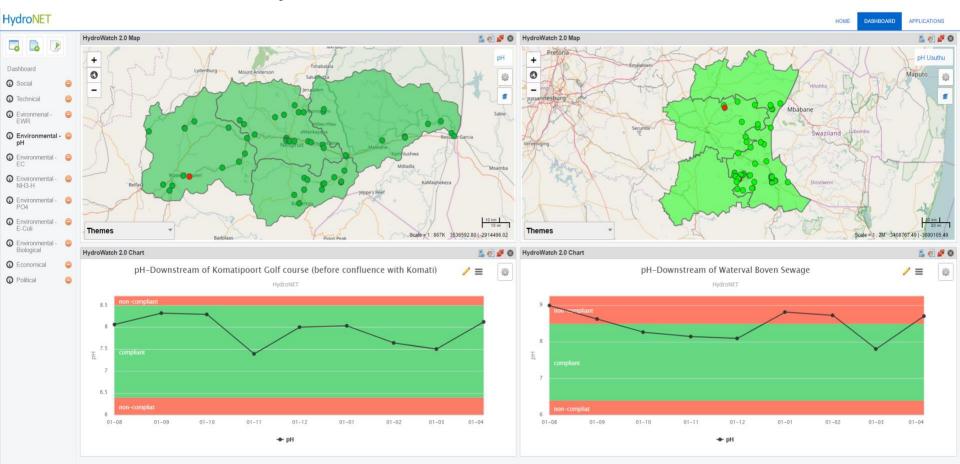
Training Water applications



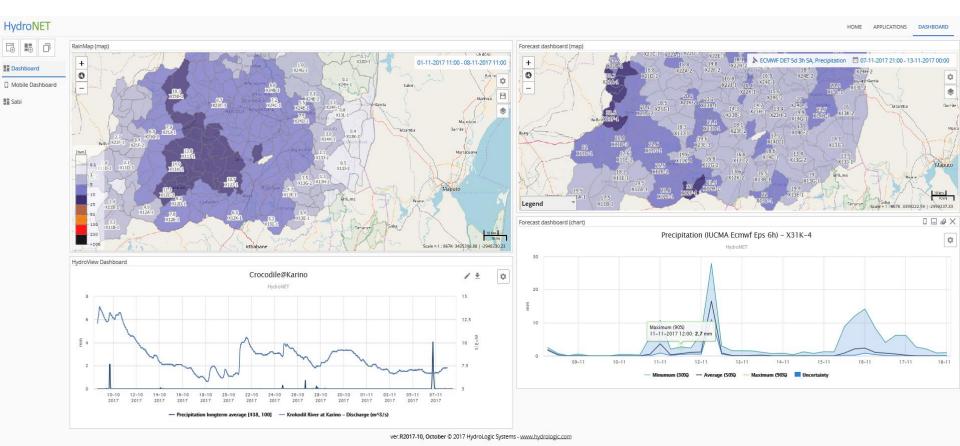
From data to information: set thresholds

Variables/Parameters	Resource Quality Objectives (RQOs)		
	EWR-S6	EWR-S7	
E. coli (CFU/100ml)	130	130	
Electrical Conductivity (mS/m)	55	42	
Ortho-Phosphate (mg/l)	0.125	0.125	

Water Quality Status for IUCMA



Water Quantity: rainfall vs flows



Subscription stage: month 4 - month 24



- Maintenance of platform, applications and data connections
 - Monitoring, Security, Accessibility



Monthly upgrades of the software (no additional costs)



- Helpdesk
 - Front office: SAWS
 - Back office: IUCMA or HydroLogic



Yearly Training at WMA



HydroNET user forums



HydroNET forum meeting

Coordinated by IUCMA

- 2 meetings per year with specialists
 - Share lesson's learned & user experiences
 - Discuss advances and collective benefits for the water sector
 - Collect wish list for new functionality
- Benefit from the HydroNET community



Water Control Room Components	Jul - Oct	Nov - Jan	Feb - Apr	May - Jul	Aug - Aug
Weather Applications Configuration and Training					
Weather Applications Subscription					
Water Auditing Configuration and Training					
Water Auditing Subscription					
Connection with DWS Databases					
Water Applications Configuration and Training					
Water Applications Subscription					

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Michelle Hartslief Project leader



Tsholofelo Tsogo Helpdesk

Project team





Leanne Reichard Project leader HL



Helga van der Vegt Account Manager + trainer



Annemarleen Kersbergen Advisor + trainer



Sead Kolic IT specialist



Erik Plaggenmars IT specialist







Tendai Sawunyama Trainer IUCMA



Marcus Selepe Trainer IUCMA



Ruben Goudriaan Trainer IUCMA



Tasks and responsibilities:



- Main contractor
 - Account management
 - Administration & Invoicing
- Present at steering committies
- First line helpdesk during office hours
 - Backend support from IUCMA/ HydroLogic
- Training of Weather applications to make WeatherSMART decisions
- Provision of Weather and Climate data (services)



Tasks and responsibilities: HydroNET

- Provide 24/7 access to the platform and applications
- Automatic software updates
- Configuration of applications
- Technical helpdesk
- Establish and maintain data connections
- Training and user manuals



Tasks and responsibilities: CMA's

- Provide shapefiles
 - Areas (e.g. quinary catchments)
 - Irrigated farms
- Provide per farm: allocation and crop type
- Provide local knowledge
- Attendance at Workshop, Training and Forum meetings
- Hosting of trainings
- Provide user feedback and experiences



Tasks and responsibilities: others

- eLEAF
 - Provision of monthly irrigated water use
 - Training Water Auditing application
- IUCMA
 - Training and capacity building
 - Coordination of HydroNET user forums
 - Coordination of new user requirements
- Kingfisher partners
 - Participate in trainings to bring in experience on the use of HydroNET to support water management decisions



DWS & regional heads

- DWS
 - Contact persons
 - Project manager: first point of contact
 - IT first point of contact
 - Marketing first point of contact
 - Internal and external promotion
- Regional heads
 - Arrange training venues
 - Get the right CMA persons to attend the trainings
- IT requirements
 - Allow HydroNET to access the DWS databases



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Activities for the coming 3 months

Sep: Configuration of Weather Applications for all 7 CMA's

HydroNET South African Weather Service

Oct: Training on making WeatherReady and ClimateSmart decisions at all CMA's









Oct: Launch of this project

- Launch plan
- 23rd of October (?)
- Venue (icw dutch embassy?)





Oct/Nov: Technical meeting on data connection



Training: making WeatherReady and ClimateSmart Decisions

- Experiences IUCMA and Kingfisher with weather & climate applications
- Training on weather and measurement methods by SAWS
- Training on usage of HydroNET Weather Applications

• Duration training: 2 days per CMA

• Planning: next slide



Proposed training plan

Monday	Tuesday	Wednesday	Thursday	Friday
15-10	16-10	17-10	18-10	19-10
PUCMA day 1	PUCMA day 2		DWS day 1	DWS day 2
22-10	23-10	24-10	25-10	26-10
Vaal day 1	Launch	Vaal day 2	Limpopo + Olifants day 1	Limpopo + Olifants day 2
29-10	30-10	31-10	01-11	02-11
Orange day 1	Orange day 2		Breede-Gouritz day 1	Breede-Gouritz day 2
			(optional)	(optional)
05-11	06-11	07-11	08-11	09-11
Berg-Olifants	Berg-Olifants		Tsitsikamma day 1	Tsitsikamma day 2
day 1	day 2			-



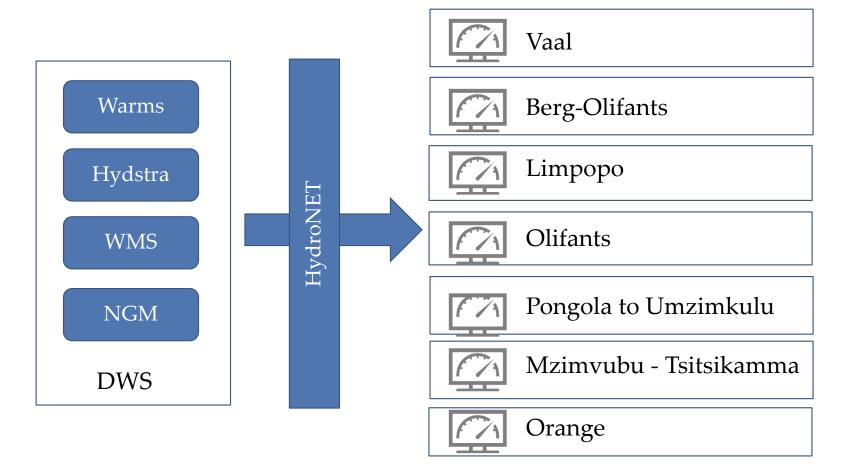
We need support from DWS!

- Facilitate venue per CMA
- Provide list with participants per CMA
- Provide shape files of different catchment levels



Launch plan

Plan for Data connection



Payment Schedule

Water Control Room Components	Jul - Oct	Nov - Jan	Feb - Apr	May - Jul	Aug - Aug
Weather Applications Configuration and Training	•	Invo	ice 1		
Weather Applications Subscription					
Water Auditing Configuration and Training			Invoi	ce 2	
Water Auditing Subscription					
Connection with DWS Databases					
Water Applications Configuration and Training			Inv	oice 3	
Water Applications Subscription				Invo	ice 4



Weather Service

HydroNET