

Implementation of the HydroNET Water Control Room for all CMA's

HydroNET

5th National
Steering
Committee
Meeting

5 July 2023



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Content of the presentation

1. Feedback on activities following on from the 4th HydroNET National Steering Committee Meeting held on 29 March 2023
2. Project Implementation Plan for the next 3 months
3. The Risk Register
4. Any other business

❖ **Feedback required from the National Steering Committee will be highlighted in the presentation**

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Beginning April 2023 to end June 2023

1. Capacity building: Training on HydroNET with the Proto-CMA's
 - Overview of number of users
 - On-site training in 4 centres across the country
 - Assistance provided by Head Office, the Regional Heads and support teams
2. Helpdesk and Support
 - Daily availability and monitoring
 - Hosting of the platform with upgrades
3. Project Management and administration
4. Knowledge Management and communication
 - Knowledge sharing session at SAWS and online



HydroNET 4 - Training

1. Weather Apps

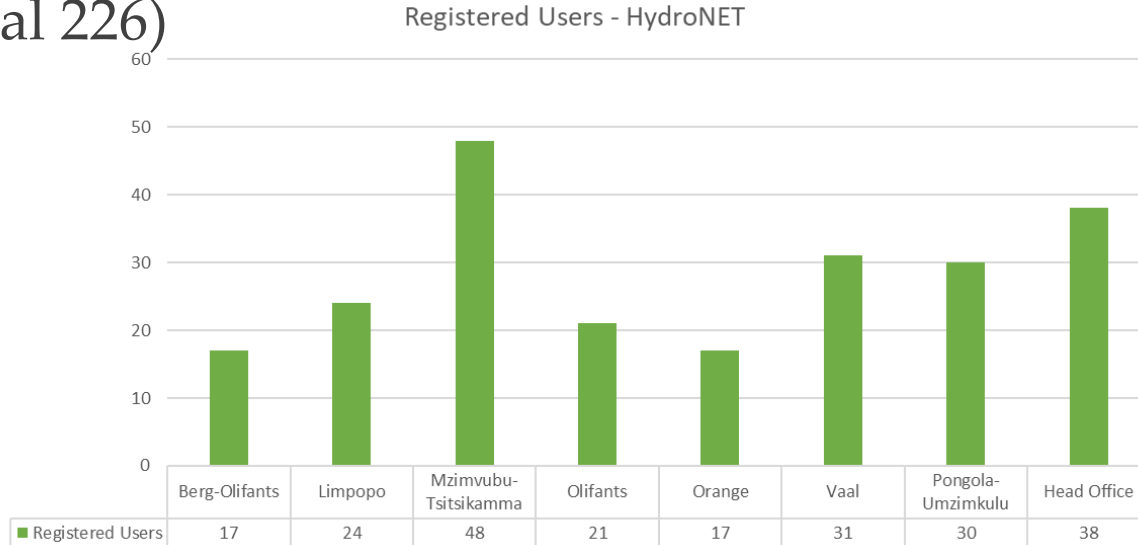
2. Water Control Room

3. Water Auditing

Head Office

Super Users

- Numbers of people registered per Proto-CMA (total 226)



Training Feedback - June 2023

HydroNET 4 Training across the country

CMA's	1	2	3	4	5	6	7	8	9	10	11	12	13
MTCMA	Green	Green	Red	Red	Blue	Blue	Blue	Blue	Blue	Red	Red	Blue	Blue
Vaal & Orange	Blue	Blue	Red	Red	Green	Green	Blue	Blue	Blue	Red	Red	Blue	Blue
PUCMA	Blue	Blue	Red	Red	Blue	Blue	Green	Blue	Green	Red	Red	Blue	Blue
Olifants & IUCMA	Blue	Blue	Red	Red	Blue	Blue	Blue	Blue	Blue	Red	Red	Green	Green

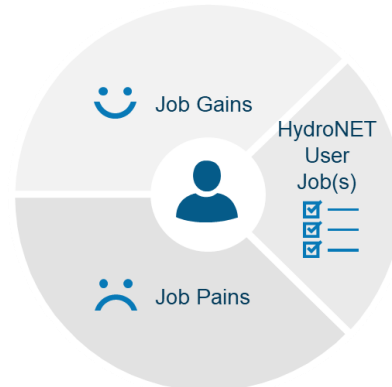


Training Feedback - June 2023

HydroNET 4 Training across the country

Content of training:

- Introduction and new features of HydroNET
- Application of HydroNET around the world
- Utilizing the system
- Building your own dashboards (user value proposition)



Training Feedback - June 2023

Evaluation of HydroNET after training

**25 responses*

HydroNET:

- offers valuable information 9.1/10
- provides easy access to information 9.0/10
- can support me in my work 9.2/10
- is useful for sharing information inside my organisation or unit 9.2/10
- is useful for sharing information outside my organisation or unit 8.3/10
- How likely are you to recommend HydroNET to a colleague? 9.3/10



Training Feedback - June 2023

Evaluation of HydroNET after training

**25 responses*

What additional databases would you like to see in HydroNET?

- Municipal water use/losses
- Forestry water use
- **Orthophosphates and Nitrates**
- Searching for property reference
- **Ability to upload shapefiles**
- WARMS
- **DEEDS**
- Ensemble Weather predictions
- Socio-economic data; SANBI related aspects
- Pollution hotspot areas
- Catchment Water Balances
- Flood alerts
- **Property boundaries for entire catchment area**
- **NFEPA shapefiles**



HydroNET Support

- Helpdesk support for questions, suggestions and technical assistance is provided daily
- HydroLogic also monitors the HydroNET system, data and connections with the use of a professional monitoring system and team.
- Furthermore, the HydroNET team continuously maintains the system's compatibility with the latest technology and optimizes the system's performance.



HydroNET Project Management and support

- Project Management Meetings held monthly with Planning sessions for key meetings and discussions
- Maintenance of platform, applications and data connections
 - Monitoring, Security, Accessibility
 - Monthly upgrades of the software
- Helpdesk
 - Front office: SAWS
 - Back office: IUCMA or HydroLogic
- Weather & Water Training for all CMA's
 - HydroNET additional support
- Rollout the communication strategy
 - Highlighting the importance of the information on HydroNET and the decisions that can be made



HydroNET - Knowledge Management - 4 July 2023

- In a hybrid session held at SAWS and online, presentations to attendees highlighted various aspects pertaining to HydroNET and the rollout to the Proto-CMA's



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Content of the presentation

1. Feedback on activities following on from the 2nd HydroNET National Steering Committee Meeting held on 28 June 2022
2. Project Implementation Plan for the next 3 months
 - Three Themes
 - Communication Strategy
 - The Training Plan

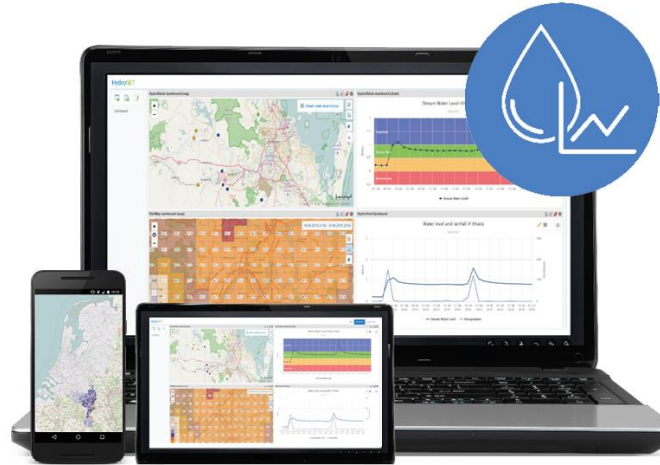
3 Themes

Water Control Room

Water quantity information

Status KPI's of CMS

Water quality information



Irrigation monitoring

Water use by irrigation

Farms with over allocation

Weather

Weather and Climate Information

Communication Strategy



- Project & Programme updates on Website
 - Uploading of key information and links
 - Articles on the use of HydroNET
- HydroNET community and knowledge sharing function / event
 - Undertaken with the Knowledge Management team
 - Sharing of experiences with HydroNET
- Briefing notes for Minister
 - Provide HydroNET outline and benefits for DWS and the water community
- Rollout the communication strategy
 - Highlighting the importance of the information on HydroNET and the decisions that can be made
- Renewal of HydroNET
 - Discussions with the Blue Deal



Weather & Water Training



- Examine possibility of data connections with relevant DWS databases
 - IRIS and GWA

- Training for Berg Olifants & Limpopo



- Assist users to master the applications & provide feedback to their stakeholders



Water Auditing for the CMA's



- Configuration of allocation per farm and per quinary (move to expert level)

CMA	DEEDS	WARMS
Vaal/Orange	available	available
MTCMA	available	available
Olifants	available	missing
PUCMA	available	missing
Limpopo	available	missing
Breede-Olifants	available	missing
IUCMA	available	partly available



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Risk Register

Risk	Risk Category	Risk Description	Consequences	Mitigation action plans	Status	Progress to date
Project Governance	Accountability & Responsibility	Inadequate project oversight and governance	Delays in the implementation schedule and processes.	Clearly defined roles and responsibilities documented		Roles and Responsibilities of all parties included in TOR of HydroNET National Steering Committee (NSC)
	Project Communications Management	Inadequate measures for real- time information dissemination due to weak communication strategy and implementation	Inability to deal with poor publicity and reputational damage. Implementation processes delayed	Conduct regular meetings of NSC and PSC. develop communication strategy with implementation plan.		Meetings held: NSC – 29 Mar '22, 28 June '22, 16 Nov '22, 29 March '23 & 5 July 2023 PSC - 17 Meetings; Additional meetings also held Project launched on 4 May 2022 Electronic info loaded onto DWS Website On-going communication implementations
	Project Stakeholder Management	Inadequate Project Management commitment from Steercom	Delays in implementing project	Defined roles and responsibilities documented		Roles and Responsibilities of all parties included in TOR of NSC

Risk Register

Risk	Risk Category	Risk Description	Consequences	Mitigation action plans	Status	Progress to date
Project Management	Project resource and control	Misaligned and uncoordinated project processes due to lack of project management office.	Poor project outcomes and benefits.	Appoint the National Steering Committee to oversee project outcomes.		First NSC held on 29 March 2022 4 additional NSC: 28 June '22 & 16 Nov '22 and 29 Mar '23 & 5 July '23 TOR confirmed
	Project Stakeholder Management	Low stakeholder commitment resulting to difficulties in coordination of project deliverables between Dept, Hydrologic and SAWS.	Delays in implementing project	Ensure timeous communication and a central team for communication		17 PSC Meetings held Monthly Reports drafted including activity plans for next month 3-month Activity Plans provided to NSC
	Project Resource Management	Lack of coordinated actions between project team due to lack of adequate articulation and sequencing of the project within the context of the overall water resource management.	Institutional process delayed.	Management structures established to resolve internal blockages quickly		NSC and PSC Meetings in place Support provided by Directorate

Risk Register

Risk	Risk Category	Risk Description	Consequences	Mitigation action plans	Status	Progress to date
Project Implementation	Project integration management	Poor Project Integration Management due to differences in Regional Office implementation for its water management areas.	Deeper discussion and effort required to create alignment	CD:IO to lead institutional processes to guide through difficult issues.		Super User Group identified; Meetings held
	Project Stakeholder Management	Resistance to change and adoption of the system due to lack of customer acceptance of the system and its related products. product and outcomes	Inconsistent training and information management processes	Annual Training Schedule defined with rollout to all Proto-CMA's Connection to key DWS systems		Annual Training Plan defined 3x Weather & Water Control Room & Water Auditing training scheduled Face-to-face training conducted in June 2023

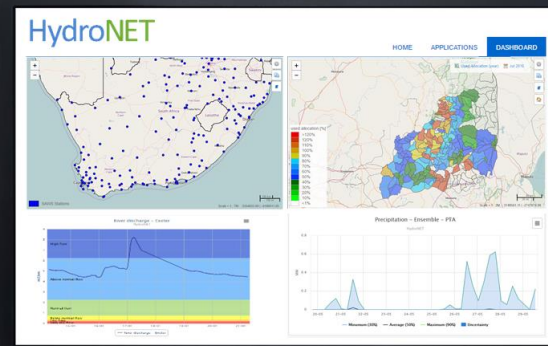
Content of the presentation

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Thank you!

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