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HydroNET

Water Control Room: Your integrated online water management solution

Colombian showcase

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How the cooperation started

I want to share data with stakeholders

I want to see the status in a Water Control Room

I want to publish data online

I want to generate tailored reports

I want personalised dashboards for staff

Delft-FEWS user

I want to add forecasts

I want to run models

I want to validate data

I want to manage my data

HydroNET Water Control Room user

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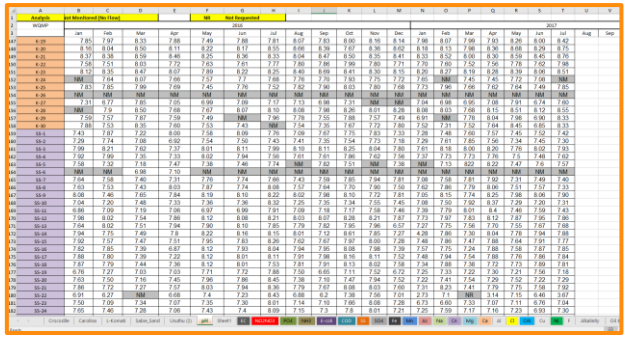
Delft-FEWS HydroNET Water Control Room

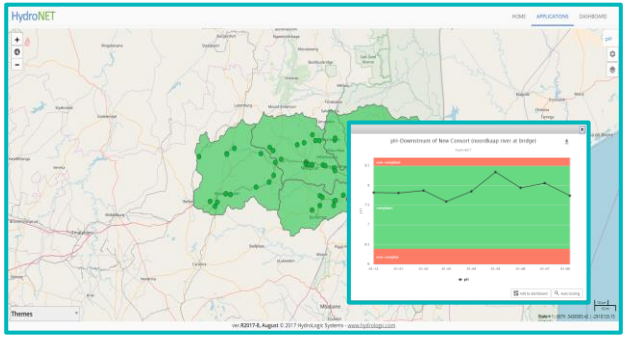
Content presentation

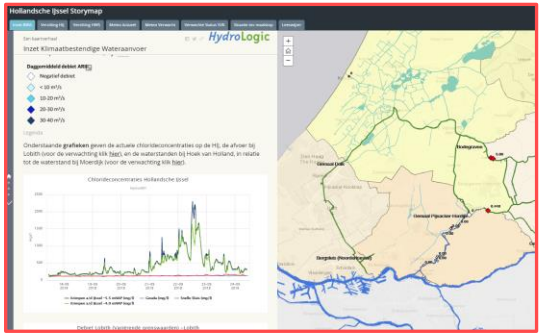
- Introduction HydroNET Water Control Room
- Showcase HERMANA Water Control Room
- How to set up your Water Control Room
- Questions

Need for:

- Operational decision support tools
- Reporting tools to inform stakeholders







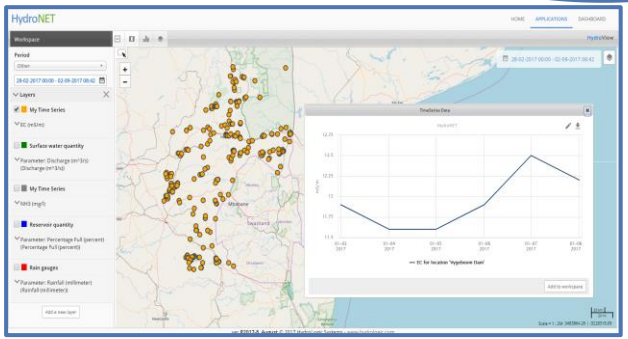
Data

Information

Knowledge

The right decisions at the right time

Take measures and inform stakeholders



HydroNET Water Control Room

Web-based decision support system:

- Combines data with local knowledge
- Generates personalised overviews, forecasts, warnings
- Tailored to your and stakeholders' needs, preferences and priorities
- Available anywhere and anytime

In order to:

- Take well-informed, transparent and accountable decisions
- For the sustainable management of water resources

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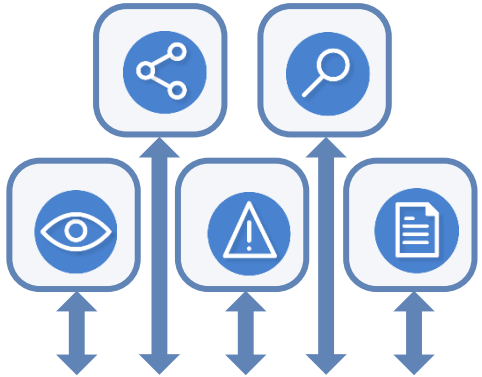
Your Water Control Room with personalised dashboards & reports

HydroNET Toolbox



HydroNET Server

Scripts & models

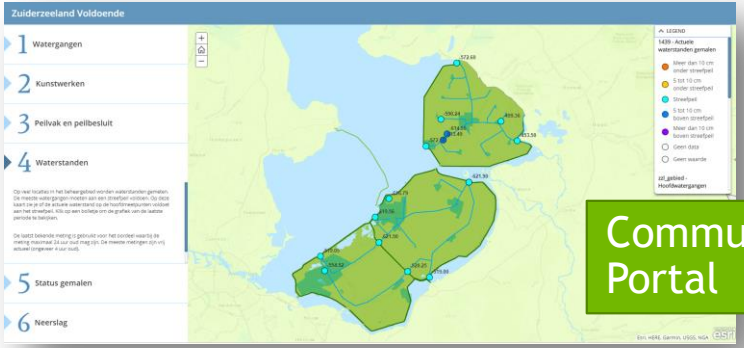
FEWS

Other Data

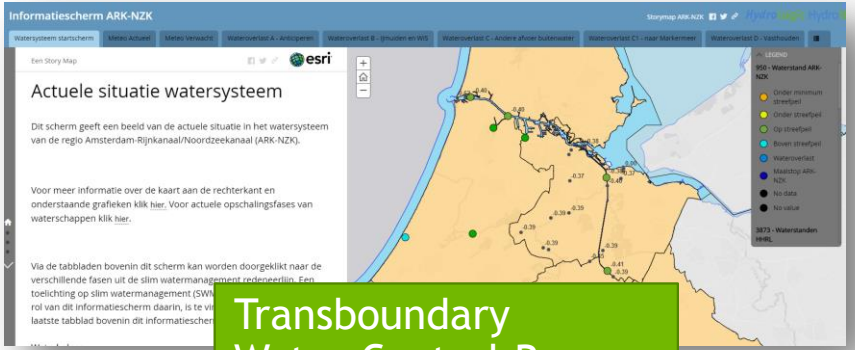
EO

Your Data

Turn Delft-FEWS into…..

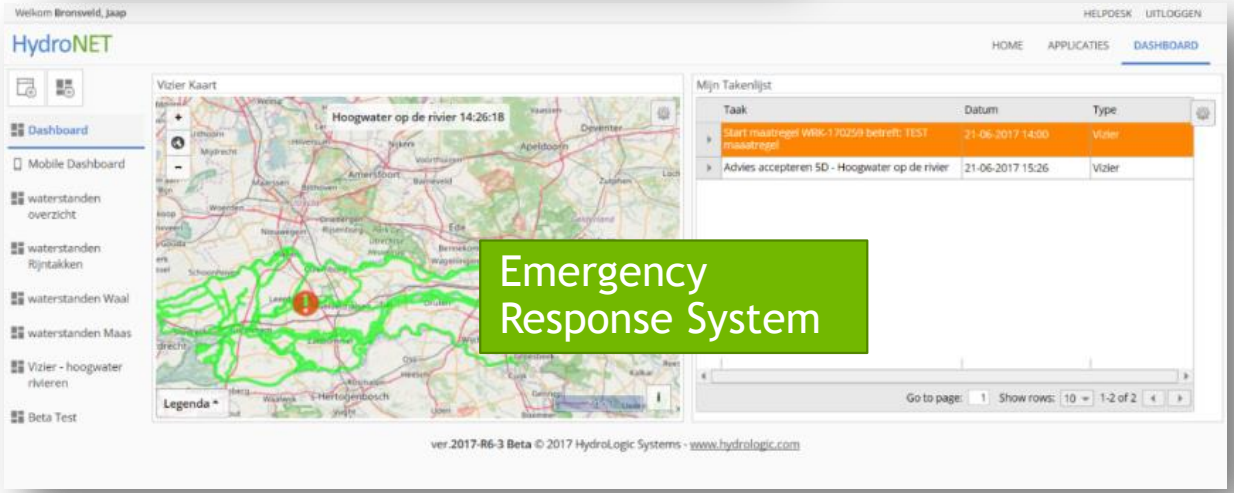


Community Portal



Transboundary Water Control Room

Report Generator



Emergency Response System

Water Control Room

PARTNERS VOOR WATER

CVC
Corporación Autónoma Regional del Valle del Cauca

HERramienta para el MANejo integral del Agua

HERMANA

Deltares

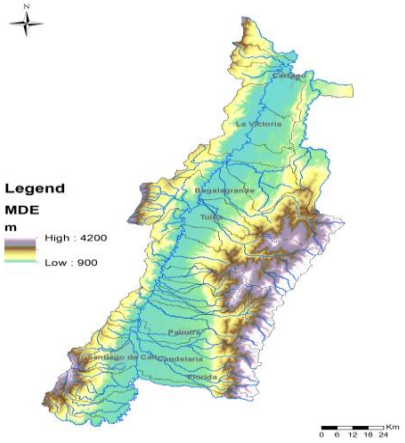
FutureWater

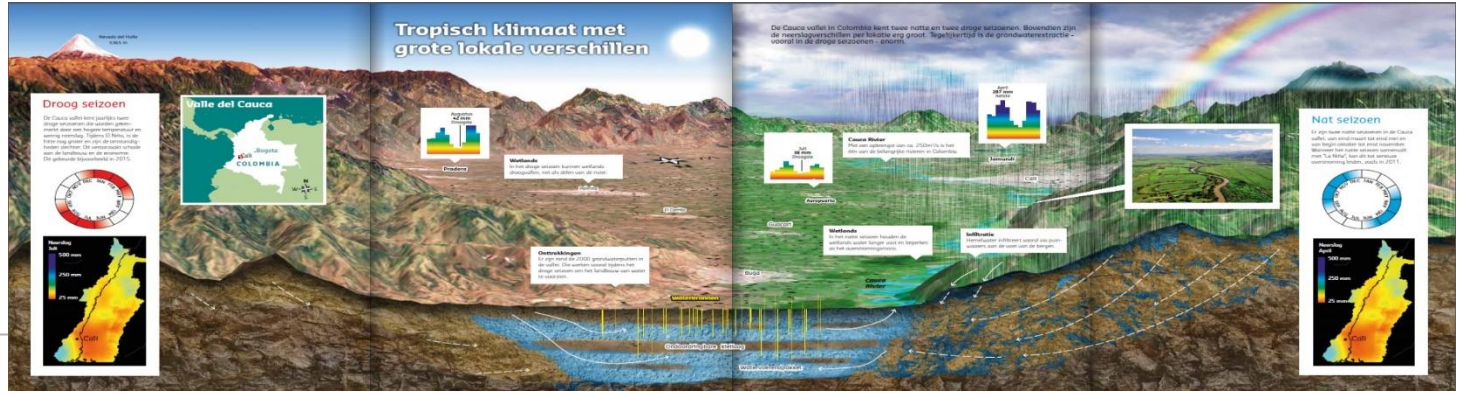
HydroNET

DUTCH WATER AUTHORITIES

Setting

Valle del Cauca



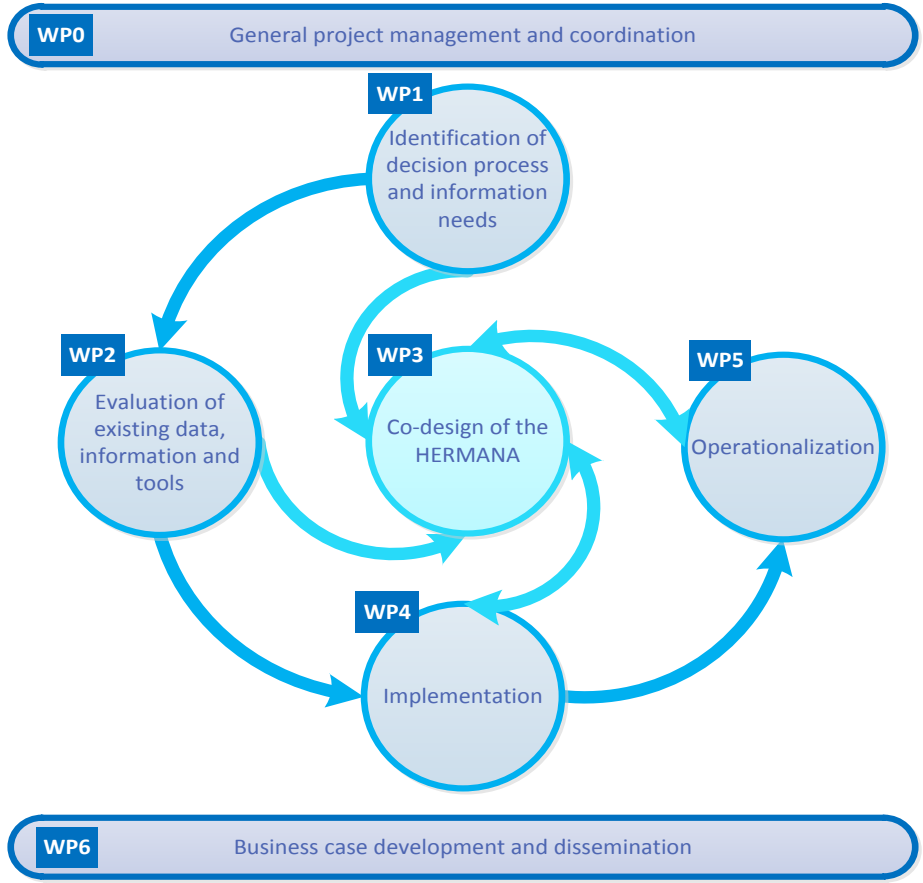


Objective

Develop an integrated water management decision support system that:

- Enables better informed and more transparent decision-making in managing water resources
- Incorporates the dynamic nature of groundwater resources and use, considering these as an integral part of the water resources in a river basin
- Contributes to improved water security
- Advances in the process of involving stakeholders in water-related decision-making
- Progresses in the co-design of integrated water resources management tools and evaluate the lessons learned that can also be applied in the Netherlands

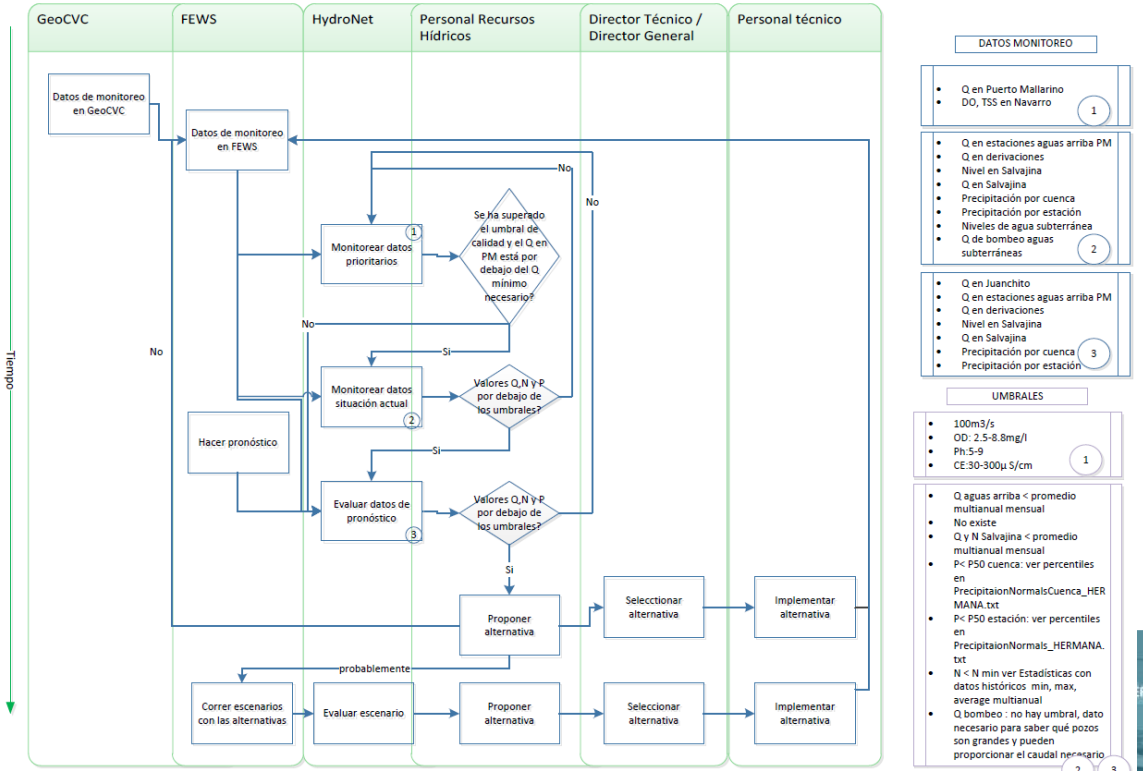
Work plan


WP0
General project management and coordination
WP1
Identification of decision process and information needs
WP2
Evaluation of existing data, information and tools
WP3
Co-design of the HERMANA
WP4
Implementation
WP5
Operationalization
WP6
Business case development and dissemination

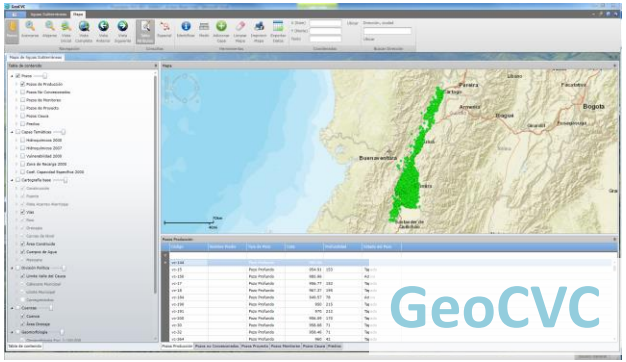
HERramienta para el MANejo integral del Agua
HERMANA

Decision making process

Use cases HERMANA: Drought, urban wate supply, Flood, Sensors activity, Water quality...

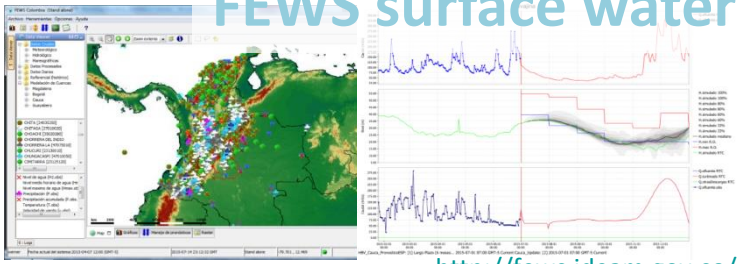


Data sources and technical components



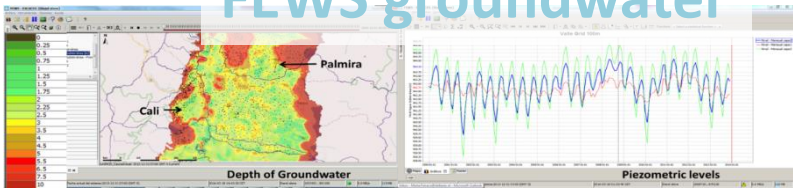
http://www.geocvc.co/

FEWS surface water

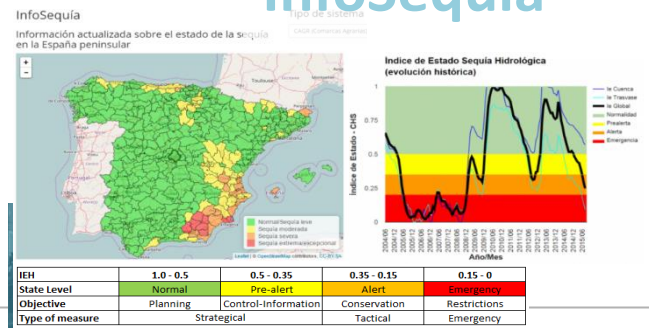


http://fews.ideam.gov.co/

FEWS groundwater



InfoSequía



IEH	1.0 - 0.5	0.5 - 0.35	0.35 - 0.15	0.15 - 0
State Level	Normal	Pre-alert	Alert	Emergency
Objective	Planning	Control-Information	Conservation	Restrictions
Type of measure	Strategical		Tactical	Emergency

http://www.infosequia.es/

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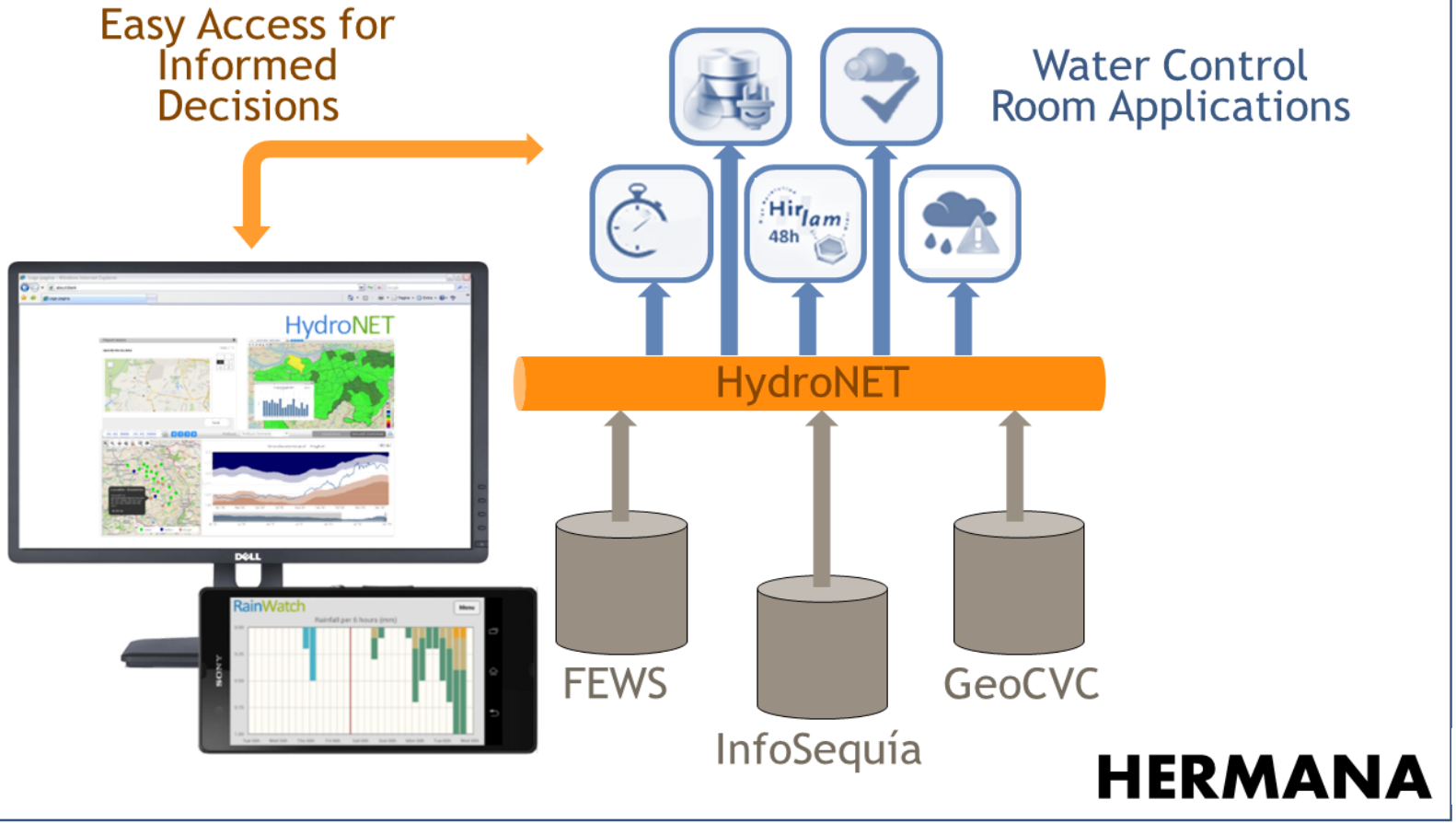
Conceptual design HERMANA



Use case: water supply City of Cali

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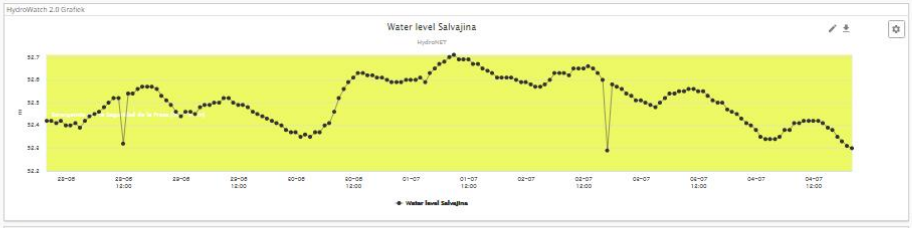
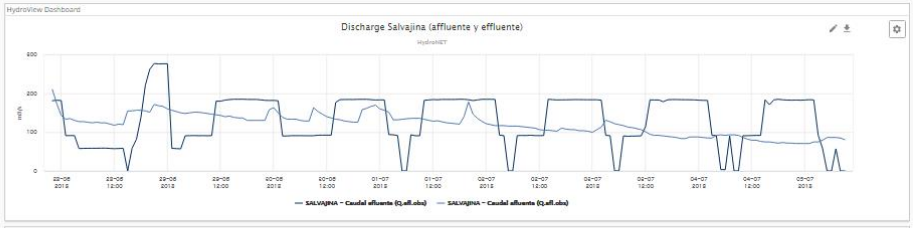
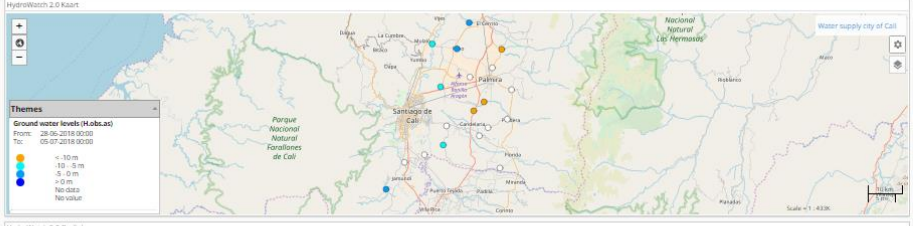
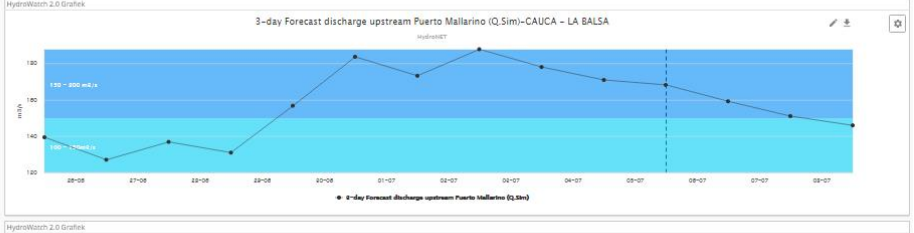
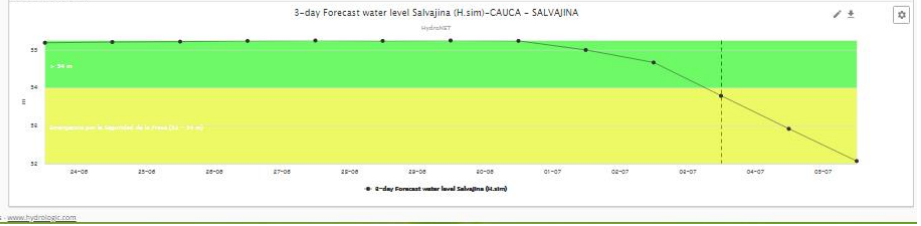


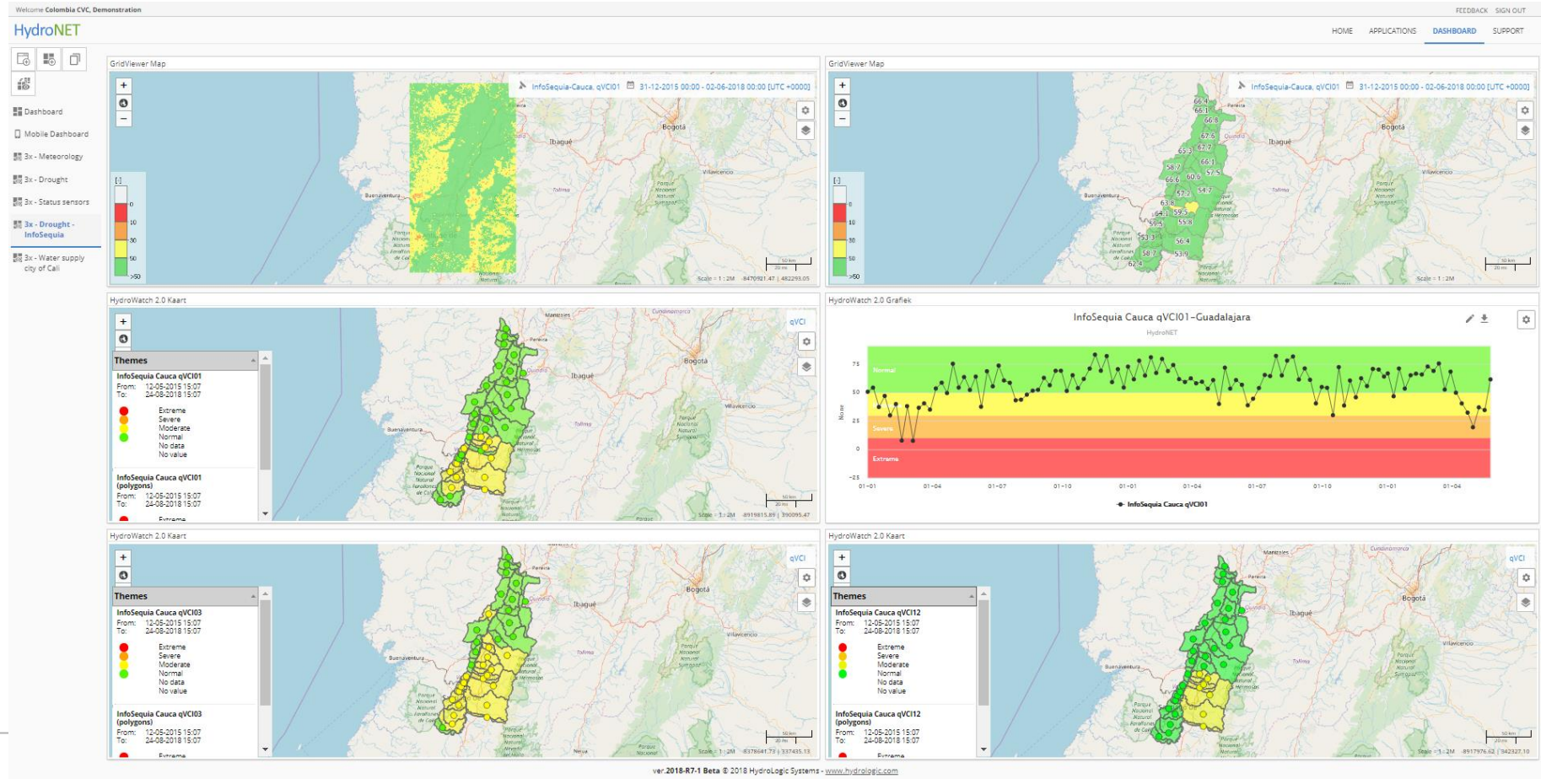




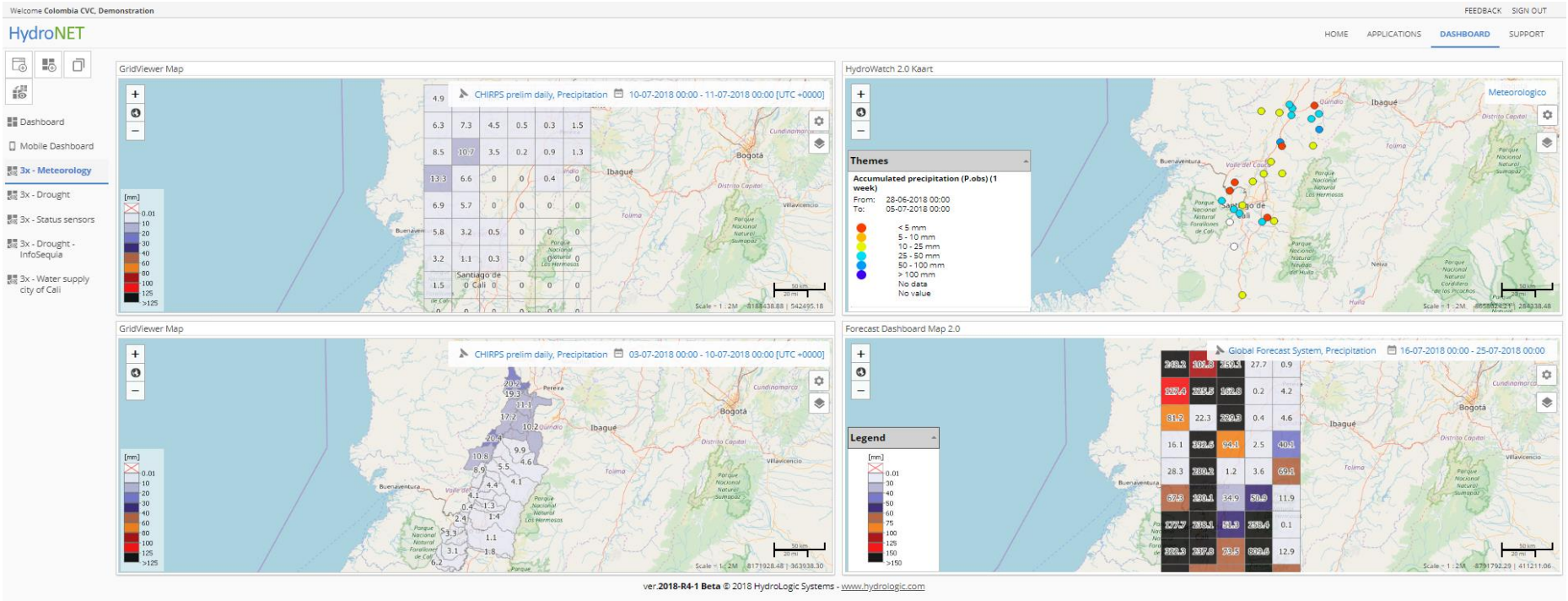




Use case: drought



Use case: weather and forecasts



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How to set up your Delft-FEWS HydroNETWater Control Room

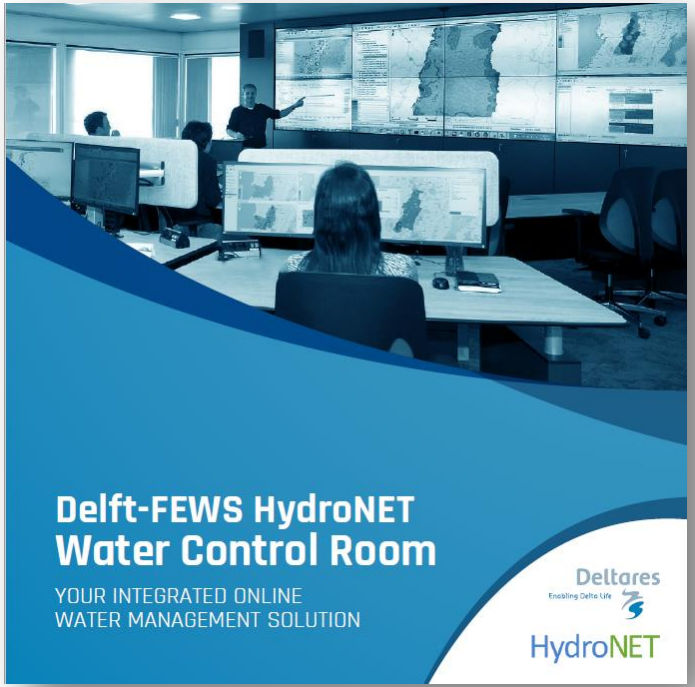
How to set up

- Connect your Delft-FEWS to HydroNET
- Define decision trees and requirements
- Configuration of:
  - Dashboards & Reports
  - Story maps & websites
  - Alerts & Messages
- In-house Water Control Room training
- Helpdesk and Support

Step 1
Organise your data streams and models with Delft-FEWS

Step 2
Configure your HydroNET Water Control Room

Step 3
Benefit from your tailored Water Control Room



More information?

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Leanne Reichard: Leanne.Reichard@hydronet.com

BENEFITS OF THE DELFT-FEWS HYDRONET WATER CONTROL ROOM:

STOP SEARCHING FOR DATA
FIND AND ORGANISE THE INFORMATION YOU NEED

GET ORGANISED
HANDLE LARGE AMOUNTS OF DATA EFFICIENTLY

EASY TO USE SIMPLIFY AND ENHANCE THE USE AND ACCESSIBILITY OF YOUR DATA

BE IN CONTROL KEEP AN EYE ON YOUR WATER SYSTEM AND RECEIVE TIMELY ALERTS

BE PREPARED INFORM THE RIGHT STAFF AND STAKEHOLDERS IN EMERGENCY SITUATIONS

SAVE TIME
AUTOMATICALLY GENERATE TAILORED WEB AND WORD REPORTS OR POWERPOINT PRESENTATIONS

PROVEN TECHNOLOGY
CO-CREATED WITH WATER PROFESSIONALS

REMOTE COLLABORATION
SHARE RELEVANT INFORMATION WITH INTERNAL AND EXTERNAL STAKEHOLDERS