



Deliverable D2.9

Customized platform
for the Netherlands Demo Case
(Second Version)



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Abstract of Deliverable	<p>Ground Truth 2.0 (GT2.0) aims to demonstrate that sustainable Citizen Observatories (COs) are possible. This is done using the innovative approach of combining the social dimensions of citizen observatories with enabling technologies, so that the implementation of the respective citizen observatories in six Demo Cases is tailored to their envisaged societal and economic benefits.</p> <p>This report presents the second version of the platform for the Dutch DC Citizen Observatory that was developed jointly with end users during co-design sessions.</p>

Versions and Contribution History

Version	Date	Modified by	Modification details
V0.1	18.11.18	Rianne Giesen	Initial draft
V0.2	26.11.18	Cristina Muñoz, Somya Joshi	Review and comments
V0.3	27.11.18	Rianne Giesen	Revised version

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List of abbreviations

CO	Citizen Observatory
DC	Demo Case
DC-NL	Demo Case Netherlands (Dutch demo case)
GT2.0	Ground Truth 2.0
SaaS	Software as a Service
URTT	User Requirement Tracking Tool
WP	Work Package

Executive Summary

Ground Truth 2.0 (GT2.0) aims to demonstrate that sustainable Citizen Observatories (CO) are possible. This is done using an innovative approach combining the social dimensions of citizen observers with enabling technologies so that the implementation of the respective citizen observatories is adapted to the social and economic benefits anticipated.

The topic of the Dutch demonstration case (DC-NL) is climate proof water management. Because of the changing climate, the frequency and severity of heavy precipitation events and droughts increases. Policy makers take measures to prevent and reduce the damage caused by such events, but citizens can also contribute to make their neighbourhood climate proof. For instance by reducing the percentage of paved surface in their gardens or by contributing to weather and water related observations.

The geographic focus of DC-NL is the region Land van Heusden en Altena (short name Altena), which experienced two extreme rainfall events in the summers of 2014 and 2015. The common goal of the stakeholders is to prevent damage from extreme precipitation, this is reflected in the chosen name for the platform: *Grip op water Altena*.

This document describes how, starting from the functional design and going through the technical design and integration of IT components, the Dutch demo case platform was developed. This document is an updated version of D2.3 – Customized platform for the Dutch Demo Case (first version). The platform provides information on weather, water and measures to take to prevent damage from pluvial flooding. Users can share information and tips, contribute observations on the water system and communicate with different stakeholder groups. Its online presence is at altena.gripopwater.nu.

1. Introduction

1.1 Background

The Ground Truth 2.0 project will deliver the demonstration and validation of six scaled-up citizen observatories in real, operational conditions, with four European and two African demonstration cases. It will demonstrate the technological feasibility, the sustained use and the societal and economic benefits of such citizen observatories. The ultimate objective is the global market uptake of the concept and enabling technologies.

One of the main objectives of WP2¹ is to enable adequate customization, deployment and upscaling of the required technical solutions in each demonstration case. Considering the different starting points and the differences in the cases' requirements, the aim is to set up a technological architecture in each case, taking into account both common modules as well as particular ones.

Within this frame, the Task T2.1, Technical design and integration of components per demonstration case, will settle the specific requirements of each demonstration case, based on the user's requirements made during the work carried out as Task T1.3, Functional design. The Task T2.1 is being developed with the purposes of: make the technical design of the Demo Case; develop standard integration between demonstration cases; and configure the technological platform in each demonstration case.

1.2 Purpose of the document

This document is one of the Task T2.1 outputs. It describes how, starting from the functional design of the Demo Case, going through the technical design and integration of IT components, the CO platform was developed.

1.3 Structure of the document

The present document is divided into 4 sections in order to give a comprehensive overview of the customized platforms of each Demo Case.

Section 1 presents an introduction to the document, giving details about the background, the purpose and the structure the document.

Section 2 is a summary of the Functional Design for the platform. It describes the results of the planning carried out by the co-design group that participate in the DC. The co-design group, through co-design work sessions, defined and validated the Vision, Mission and Objectives of the Citizen Observatory, the customized Functional Design and the Technical Design.

Section 3 presents the platform architecture validated by the co-design groups of the DC, designed to satisfy the user requirements of the customized Functional Design, the selection of technological tools and the mock-up developed to obtain feedback from the co-design group.

Finally, Section 4 presents and describes the second version of the platform, created based on the customized Functional Design and the feedback from the co-design group.

¹ Ground Truth 2.0 - Environmental knowledge discovery of human sensed data, D0.A extract FINAL for kick-off, 1.3.3. WT3 Work package descriptions

2. Summary of Functional Design for the platform of the Dutch Demo Case

In the first co-design session, the challenge of the DC-NL was formulated. The co-design group stated that 'If we do not take measures, our urban and rural areas will keep being affected by local flooding because of the extreme weather resulting from climate change. This challenge forms the basis for the Vision, Mission and Objectives for the Demo Case Citizen Observatory. Then, the functional design for accomplishing that premises was developed.

2.1 Mission, Vision and Objectives of the Citizen Observatory

The members of the co-design group defined validated the Vision, Mission and Objectives of the Citizen Observatory, as given below.

Vision: In Land van Heusden en Altena the municipalities, water authority, citizens and farmers understand each other's interests and ways of working and are together responsible for limiting the damage by pluvial flooding in urban and rural areas.

Mission: The citizen observatory is a place (on- and offline) where collected observations, knowledge and warnings are shared, where bottlenecks and measures are constructively discussed along short communication lines and where it is clear which actions are taken by which party.

Objectives:

1. Facilitate the exchange of observations and information about the weather and water systems [in October 2017] to allow all stakeholders to act or plan ahead.
2. Support short communication lines and insight in plans and activities of stakeholders regarding water management in Land van Heusden en Altena [early 2018]
3. Set up a knowledge platform with action perspectives and tips to take measures against damage from pluvial flooding [in the course of 2018]
4. Support an open and constructive dialogue between all involved parties in Land van Heusden en Altena [from the start] and expand the network towards a real water community.
5. Prepare the sustainable continuation of this CO after GT2.0 [in 2018 en 2019]

The vision, mission and objectives are summarised in Figure 1 below.

In Land van Heusden en Altena the municipalities, water authority, citizens and farmers understand each other's interests and ways of working and are together responsible for limiting the damage by pluvial flooding in urban and rural areas.

The citizen observatory is a place (on- and offline) where collected observations, knowledge and warnings are shared, where bottlenecks and measures are constructively discussed along short communication lines and where it is clear which actions are taken by which party.

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4. Support an open and constructive dialogue between all involved parties in Land van Heusden en Altena [from the start] and expand the network towards a real water community.

5. Prepare the sustainable continuation of this CO after GT2.0 [in 2018 en 2019]

Figure 1: Vision, mission and objectives

2.2 Functional Design

In GT2.0, functional design is defined as a method to translate the stakeholders' requirements into design features (see D1.5 Functional design of the citizen observatories). A generic "Story Map"² was proposed to guide the development of a customized story map for each DC. It was also proposed that the user requirements are stored in a "User Requirement Tracking Tool" (URTT)³ to allow for easy tracking of their status and to identify the corresponding layer in the platform architecture.

Departing from the generic Story Map as a reference point, the co-design group developed their own Story Map from the perspective of the future users of the Citizen Observatory, citizens, scientists and policy makers (Figure 2). The customized and validated entries in the URTT form the basis for the deployment of the platform architecture of *Grip op water Altena*.

² The generic Story Map is fully described in Ground Truth 2.0 "Deliverable D1.5, Functional design of the citizen observatories".

Grip op water Altana offers its community members two main opportunities: A platform to share and access various sources of information, and channels serving to improve the communication between citizens, farmers, municipalities and water authority. Collected data can support both storylines, but has not been an essential part of the observatory from the beginning.

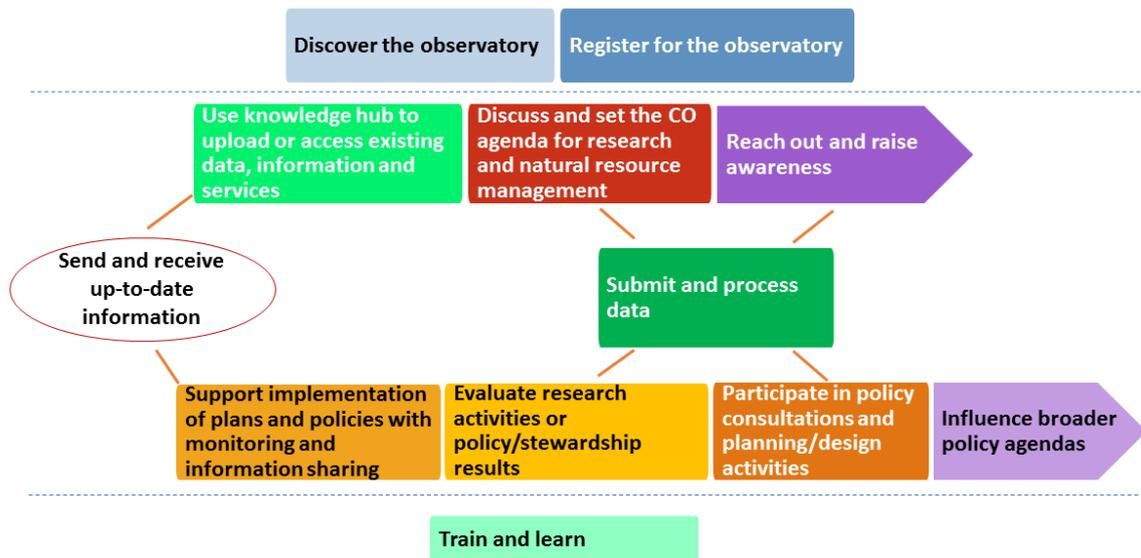


Figure 2: Functional design with main headlines for DC-NL Grip op water Altana

2.2.1 Tools for the development of the platform

WordPress

The layout and content of the platform website have been created in WordPress, a free and open-source content management system. WordPress has primarily been chosen because it is widely used and has a large number of plugins available for various functionalities.

For the current platform (Figure 3), the following plugins have been added:

- *WP Google Maps* and *Basic Google Maps Placemarks* to easily add placemarks to a Google Map
- *Contact Form 7* to configure contact forms
- *LoginPress* to create a secure registration and login environment
- *Login No Captcha reCAPTCHA* to add a checkbox to the login form to prevent hacking
- *Responsive menu* to allow for scalability of the platform for viewing on laptops, tablets and mobile phones
- *GetSocial.io* share buttons to add social sharing buttons and track social sharing
- *Envira Gallery* to include photo galleries of events
- *Asgaros Forum* to include forum functionality

WordPress is currently installed on a server owned by HydroLogic Research (demonstration case leader), but in such a generic way that it can easily be transferred to a different server if required.



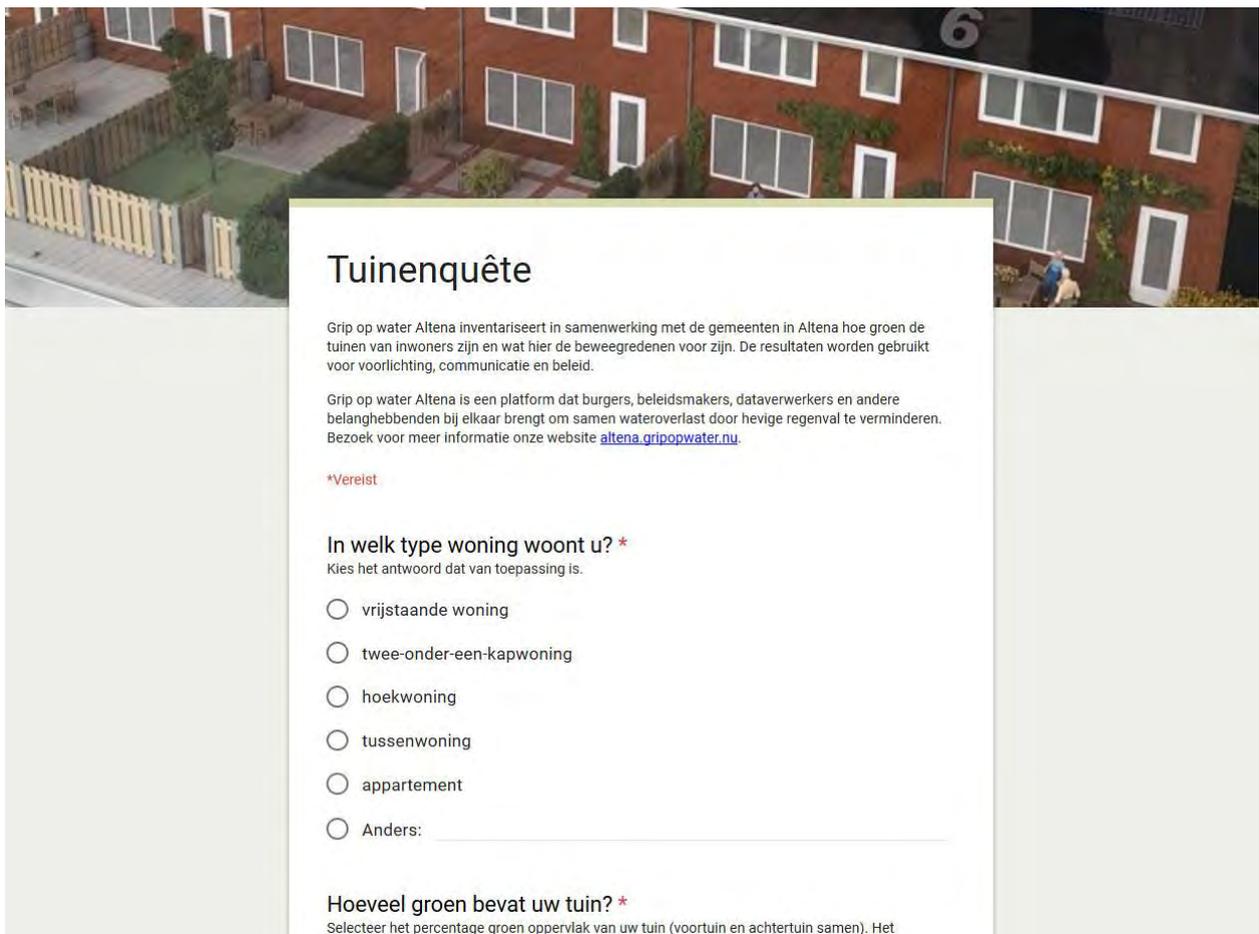
Figure 3: Homepage of the Grip op water Altona platform.

2.2.2 Data Collection and data aggregation

Data collection is not a key element of the DC-NL platform. Since the first version of the platform, two tools have been added to the platform to facilitate the collection of information.

Google Forms surveys

Surveys on citizen attitude and their living environment are generated in Google Forms (Figure 4). Links to the form are provided in news items on the website and the social media channels. The first survey has recently been held, the results will be presented on the website.



Tuinenquête

Grip op water Altena inventariseert in samenwerking met de gemeenten in Altena hoe groen de tuinen van inwoners zijn en wat hier de beweegredenen voor zijn. De resultaten worden gebruikt voor voorlichting, communicatie en beleid.

Grip op water Altena is een platform dat burgers, beleidsmakers, dataverwerkers en andere belanghebbenden bij elkaar brengt om samen wateroverlast door hevige regenval te verminderen. Bezoek voor meer informatie onze website altena.gripopwater.nu.

***Vereist**

In welk type woning woont u? *
Kies het antwoord dat van toepassing is.

- vrijstaande woning
- twee-onder-een-kapwoning
- hoekwoning
- tussenwoning
- appartement
- Anders: _____

Hoeveel groen bevat uw tuin? *
Selecteer het percentage groen oppervlak van uw tuin (voortuin en achtertuin samen). Het

Figure 4: Garden survey in Google Forms

ESRI Survey123

Citizen reporting on water-related anomalies like flooding or drought is implemented with Esri Survey123 (Figure 5). The entry form can be opened in the browser or mobile devices, making use of functionalities like phone camera and GPS location, if available. Collected pictures and information are stored in the ArcGIS Online environment of the Survey123 initiator, in this case the water board. The observations are presented as maps on the platform.

Wateroverlast Altena

Is er wateroverlast in je omgeving? Vul de velden hieronder in en deel je waarneming via Grip op water Altena.

Datum*

11/20/18

Locatie*

Verplaats het icoontje naar de locatie van de waarneming.

Map data © OpenStreetMap contributors, CC BY SA. Powered by Esri

Lat: 51.77793 Lon: 4.93561

Maak of upload een foto

Indien mogelijk graag een liggende foto.

Click here to upload image file. (<10MB)

Waterdiepte

Vul hier de waterdiepte in cm in (optioneel)

Opmerking

Submit

Powered by Survey123 for ArcGIS

Figure 5: Example data collection form in ESRI Survey123

Gavagai Monitor

Online conversations on topics directly related to the theme of *Grip of water Altena* are being monitored with the Gavagai Monitor. This tool searches for pre-defined keywords on news sites, in blogs and Twitter feeds and performs statistics on the results. The Gavagai Monitor analyses the sentiments in the messages, indicating whether conversations are dominantly negative or positive.

For the DC-NL, the Gavagai Monitor searches for keywords associated with five predefined themes: rain, flooding, water level, drought, water management. In addition, a filter was added with names of towns and cities in Rivierenland and Altena specifically to allow for geographical selection of messages (Figure 6).



Figure 6: Gavagai Monitor dashboard for DC-NL themes.

2.2.3 Monitoring and assurance of the technical performance of the platform

Usage of the platform website is being monitored with Google Analytics. The technical performance of the platform is monitored by HydroLogic's IT-team within their standard testing procedures.

2.2.4 Standardization of data management

The only data currently collected is textual information and pictures, which do not require standardization.

2.2.5 Enhanced services

HydroNET platform

Weather and water data and information are made available through the HydroNET platform.

The HydroNET system has been developed by HydroLogic Research and is based on the Software as a Service (SaaS) paradigm. HydroNET runs from a cloud infrastructure and is used both in research and commercial environments.

In HydroNET, open protocols are used to couple existing platforms and create a chain of information services, connecting a variety of distributed data sources through a system of backend services. Online models assimilate, calibrate, forecast and aggregate data into information which is shared via a network of application services and made available to a wealth of web-based applications with real-time thematic maps (Figure 7).

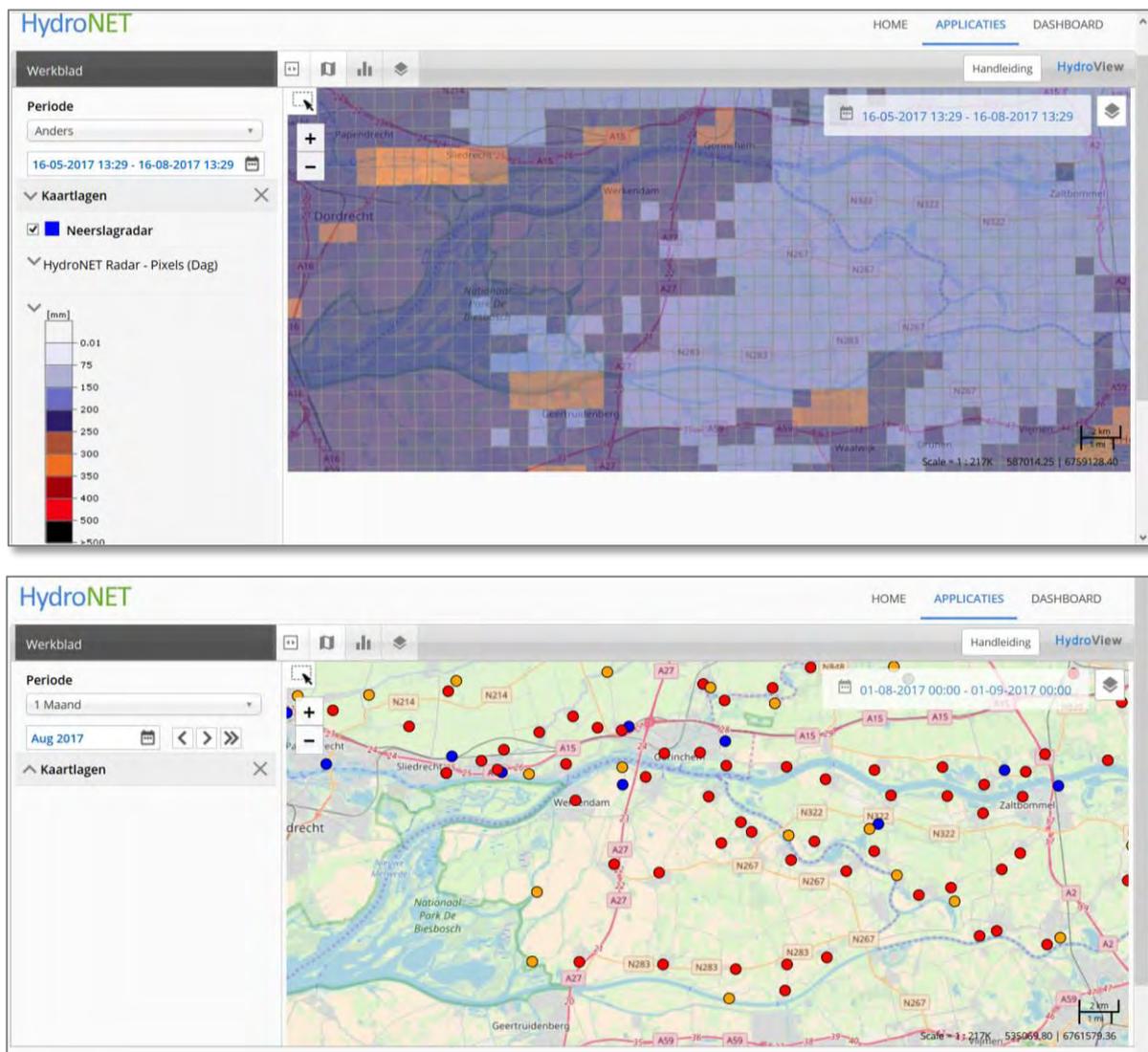


Figure 7: Example maps on the HydroNET platform

ESRI Story Maps

ESRI Story Maps is used to create a gallery of maps from different sources (HydroNET data, water board data, Rijkswaterstaat) and combine them with explanatory text in a consistent way (Figure 8).

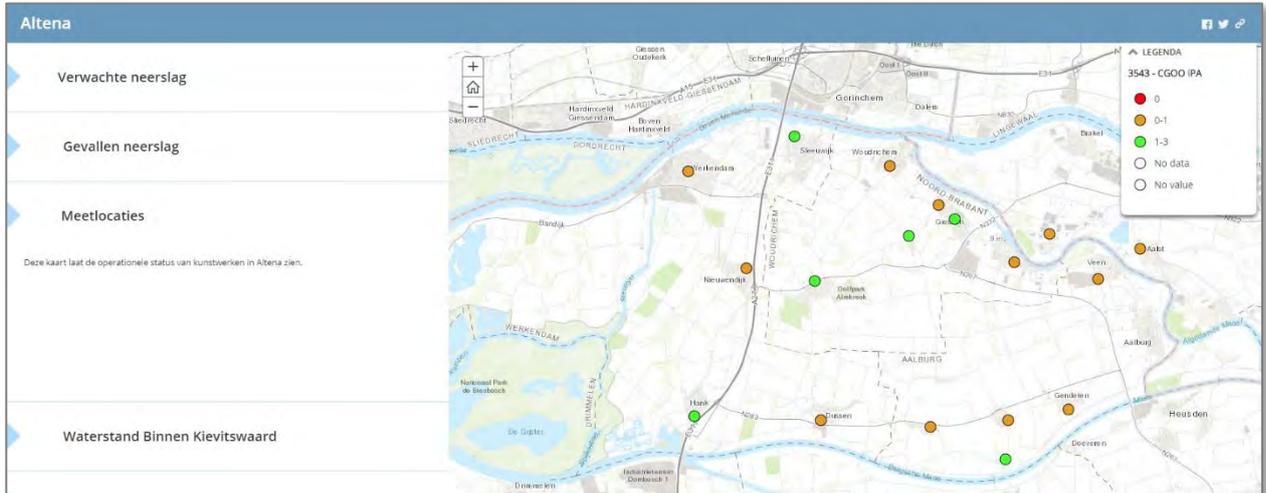


Figure 8: ESRI Story Maps on the Grip op water Altena platform.

Inundation map for Rivierenland

HydroLogic has calculated inundation maps for the entire area of water board Rivierenland, using the 2-dimensional D-Hydro flow model by Deltares (Figure 9). The map shows the water depth one hour after a heavy precipitation event of 60 mm in one hour. This map will be integrated on the website through ESRI Story Maps.

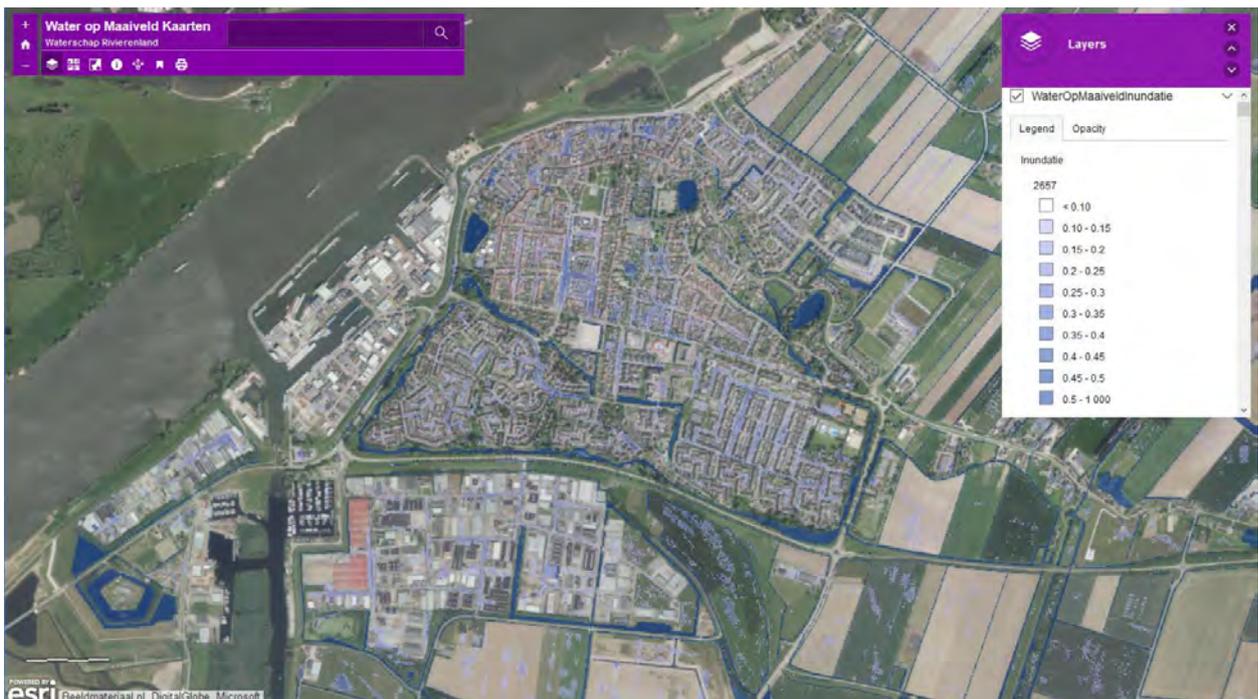


Figure 9: Inundation map for Rivierenland, showing the Werkendam area.

3. Platform technical design and integration of components of the Citizen Observatory

3.1 Platform architecture and selection of technological tools to use

The validated functional design was translated into a technical design, where existing data and information sources, as well as communication channels are integrated into one platform (Figure 10). The central place is the web platform at altena.gripopwater.nu created with WordPress.

On the web platform, the user finds interactive maps with weather and water information from external data sources. These maps are configured using open and private data provided through HydroNET (precipitation product, measurements water authority Rivierenland) and publicly available maps (e.g. Rijkswaterstaat). All maps are brought together and supplemented with explanatory text in the ESRI Story Maps interface.

There is static basic information on what measures can be taken, based on existing websites like hohohoosbui.nl (water authority Rivierenland, Rainproof Amsterdam and huisjeboompjebeter.nl). The static information is augmented with dynamic information and tips from community members (forum). Google Maps plugins are used to include maps showing implemented measures and reports on the water system.

Online and offline stakeholder interactions will inform and be informed by the communication on the web platform. Online tools used are WhatsApp (co-design group communication) and a Facebook page. A wider audience is reached through online social media (Twitter, Facebook) and printed/online local media channels (local newspaper).

Data collection is implemented by Google Forms (surveys) and Esri Survey123 (reporting).



Figure 10: Technical architecture of the platform (second version)

The pages on the web platform are designed around sets of user stories (Table 1).

Table 1: Pages and content on the web platform

Page (NL)	Page (EN translation)	Content
Home	Home	Teasers and links to the other pages, Tweets
Nieuws	News	News items on Grip op water Altena activities
Water op de kaart	Water on the map	Weather and water information maps
Wateroverlast	Flooding	Information on what to do in case of flooding
		Information on tasks of different organisations
		Information on previous flooding events
Maatregelen	Measures	Map with measures taken by different stakeholders
		Information on what measures stakeholders (can) take
Over ons	About us	Grip op water Altena
		Ground Truth 2.0
Aanmelden	Register	Registration form

The information on the web platform will be continuously expanded.

3.2 Mock-up and feedback

During the mock-up session in September 2017, the co-design group were given paper versions of example HydroNET maps, information on hohohoosbui.nl and the proposed layout for the web platform.

A returning comment from the co-design group is that provided information and data needs to be actual and tailored to their situation and region. Maps should be zoomed in to cover the Altena region. Measures taken should not be general, but show what the water authority and municipalities are actually working on in their region.

A multitude of devices was used during the mock-up session, directly illustrating the need to set up a responsive platform that works on different screen sizes.

During the mock-up session, a name was chosen for the observatory. *Grip op water* covers the focus on water-related issues, not restricted to pluvial flooding. This allows for expansion of topics, for example with river flooding and water quality issues. The local nature of the observatory is reflected in the addition *Altena*, which is the name of the new municipality to be formed by January 2019 by merging the three existing municipalities.

The regional name has been kept separate in the domain name (altena.gripopwater) to allow for easy expansion to other regions, still keeping the local focus of each observatory. When the first version of the platform was developed, the most obvious domain name, gripopwater.nl, was already registered to another party. Therefore, the domain name gripopwater.nu was chosen. In the meantime, gripopwater.nl has become available and been registered by HydroLogic, such that both websites can be interlinked.

Table 2: Necessary tasks to develop the second version of the CO from the mock-up

Task	Tools	Responsible
Register domain name gripopwater.nu and gripopwater.nl	Web hosting	HR
Register Twitter account	Twitter	HR
Design logo Grip op water Altena	Inkscape	HR
Create website content (text and figures)	WordPress	HR
Create precipitation maps	HydroNET	HR
Create aggregated map page	ESRI Story Maps	HR
Create data collection forms	ESRI Survey123	HR
Create surveys	Google Forms	HR

4 Presentation and description of contents of the Citizen Observatory platform (Second version)

The first version of the platform *Grip op water Altena* (altena.gripopwater.nu) has been made available online on 16 January for testing by the co-design group. This was a soft launch, there was no suitable event to connect to for a big public launch. This document includes the additional functionality that has been implemented in the second version.

The website is available in Dutch, use of the Dutch language throughout was a strong requirement of the co-design group and stresses the local character.

The header on the website shows the observatory logo on the left side (Figure 11). The logo includes the colours and the pin from the Ground Truth 2.0 logo. On the right side, the different menu items are available, as presented in Table 1.



Figure 11: Header of the platform website

The homepage starts with a large picture, followed by a call to action (Figure 12) and a rotating line with the latest Tweets by Grip op water Altena. Below are coloured blocks with teasers to the different pages on the website.



Samen maken we Alتنا waterbestendiger Ontdek wat jij kunt doen

Het klimaat verandert. Het regent vaker en harder. Ook in Alتنا. Het waterschap doet er samen met de gemeenten alles aan om de kans op wateroverlast zo klein mogelijk te maken. Maar je kunt zelf ook iets doen. Zoals het vervangen van tegels in de tuin door plantjes. Of het melden van verstopte rioolputten of plekken waar het water na een flinke plensbui blijft staan. Samen kunnen we veel bereiken.

Ben je benieuwd hoe de verschillende partijen in @Alتنا2019 willen werken aan meer grip op water? Wij zochten het voor je uit: [altena.gripopwater.nu/water-i...](#) @CUAlتنا @VVDAlتنا @CDAlتنا @ProgressfAlتنا @SGPAlتنا @BurgerstemA @AlتناLokaal @JEZUSLEEFt_pp
Ongeveer 5 dagen geleden op Grip op water Alتنا's Twitter via Twitter Web Client



Actuele weer- en waterinformatie

Wil je weten hoeveel neerslag er gevallen is in Alتنا of hoe de waterstand van de rivier varieert?

[Bekijk het hier](#)

Figure 12: Top part of the homepage

The lower part of the homepage (Figure 13) includes additional links to the pages on the website, links to the social media channels (Twitter and Facebook) and the acknowledgement of the EU funding. The footer is the same on all the pages.

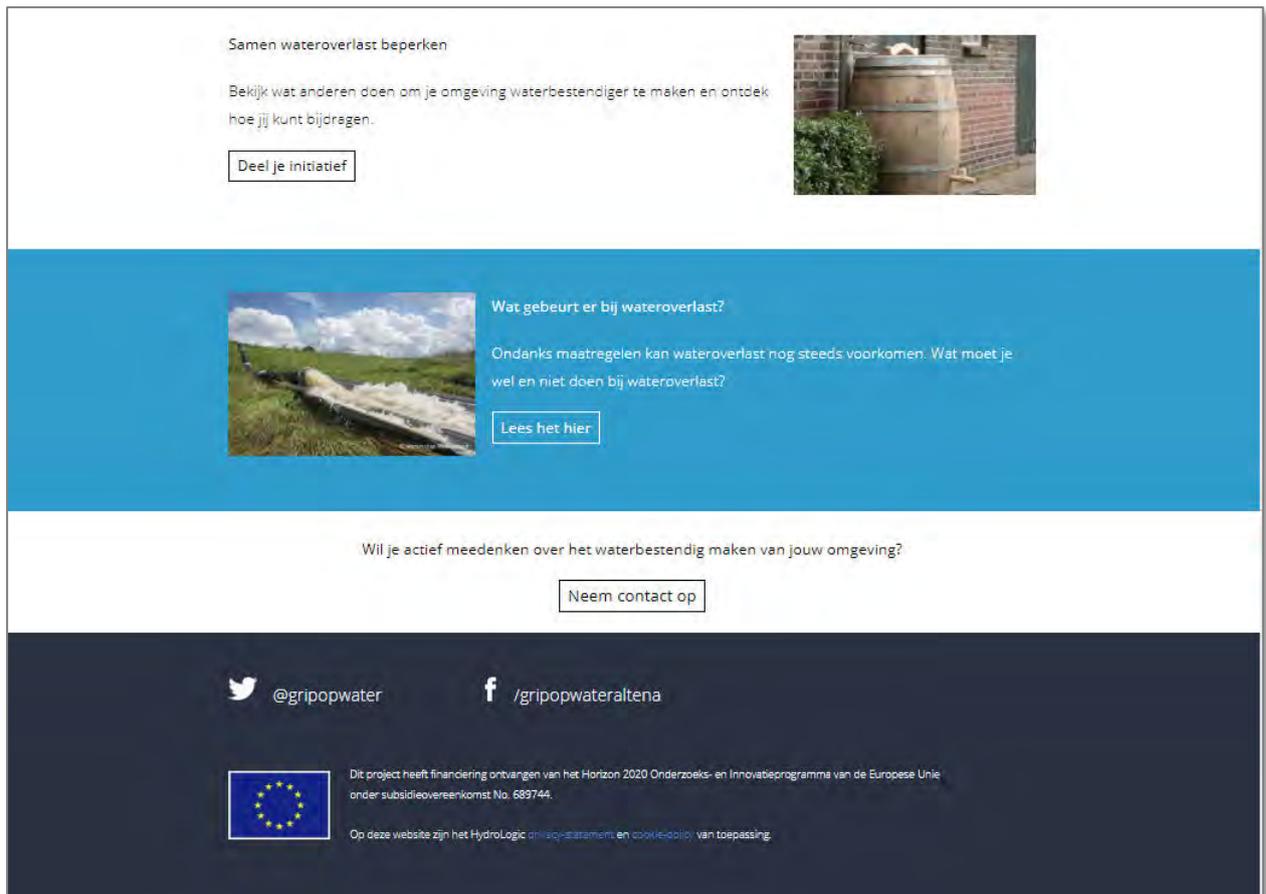


Figure 13: Lower part of the homepage

The *Nieuws* (News) page contains news items about Grip op water Altena, with the latest item at the top (Figure 14). The news items are also shared via the Twitter and Facebook accounts and occasionally in the local newspapers.

Nieuws



Water genoemd in vijf van de acht verkiezingsprogramma's

Gepubliceerd op 15 november 2018 door Rianne Giesen

In de aanloop naar de gemeenteraadsverkiezingen op 21 november heeft Grip op water Altena de verkiezingsprogramma's van de deelnemende politieke partijen doorgenomen. Het doel was uit te zoeken op welke wijze partijen in de nieuwe gemeente Altena willen werken aan 'Grip op water'. [Lees meer](#)



Digitale tuinenquête tijdens Week van ons Water

Gepubliceerd op 15 oktober 2018 door Rianne Giesen

Er zijn veel verschillende tuinen in Altena, van volledig betegelde tuinen tot groene oases. Om wateroverlast en hittestress te beperken, wil Grip op water Altena inwoners stimuleren hun tuin zo groen mogelijk in te richten. De eerste stap hierin is te inventariseren hoe groen de tuinen in Altena zijn en wat hier de beweegredenen voor zijn. [Lees meer](#)



Grip op water Altena aanwezig op Boerenervdag

Gepubliceerd op 15 augustus 2018 door Rianne Giesen

Op zaterdag 18 augustus is Grip op water Altena met een kraam aanwezig op de Boerenervdag. De Boerenervdag wordt gehouden op het erf van het melkgeitenbedrijf van de familie Combee in Wijk en Aalburg. In onze kraam vertellen we je graag meer over Grip op water Altena en hoe je zelf kunt bijdragen aan een klimaatbestendiger Altena. [Lees meer](#)



Vijftig procent bezoekers Weidevogelfestival heeft groene tuin

Gepubliceerd op 25 juni 2018 door Rianne Giesen

Het burgerplatform Grip op water Altena was zaterdag 16 juni aanwezig tijdens het Weidevogelfestival van Altenatuur op Fort Giessen. In de kraam konden mensen aan de hand van een maquette met zes woningen en bijbehorende tuinen laten weten hoe hun tuin eruit ziet. [Lees meer](#)



Grip op water Altena aanwezig op Weidevogelfestival

Gepubliceerd op 6 juni 2018 door Rianne Giesen

Figure 14: Page Nieuws

Water op de kaart (Water on the map) currently includes five maps (three from HydroNET, two from Rijkswaterstaat) with weather and water information (Figure 15). The layout is configured with ESRI Story Maps. More maps with data from the water board have been created in HydroNET and Story Maps, but are awaiting approval by the water board before being included on the website (Figure 16).



Figure 15: Page *Water op de kaart* with ESRI Story Maps.

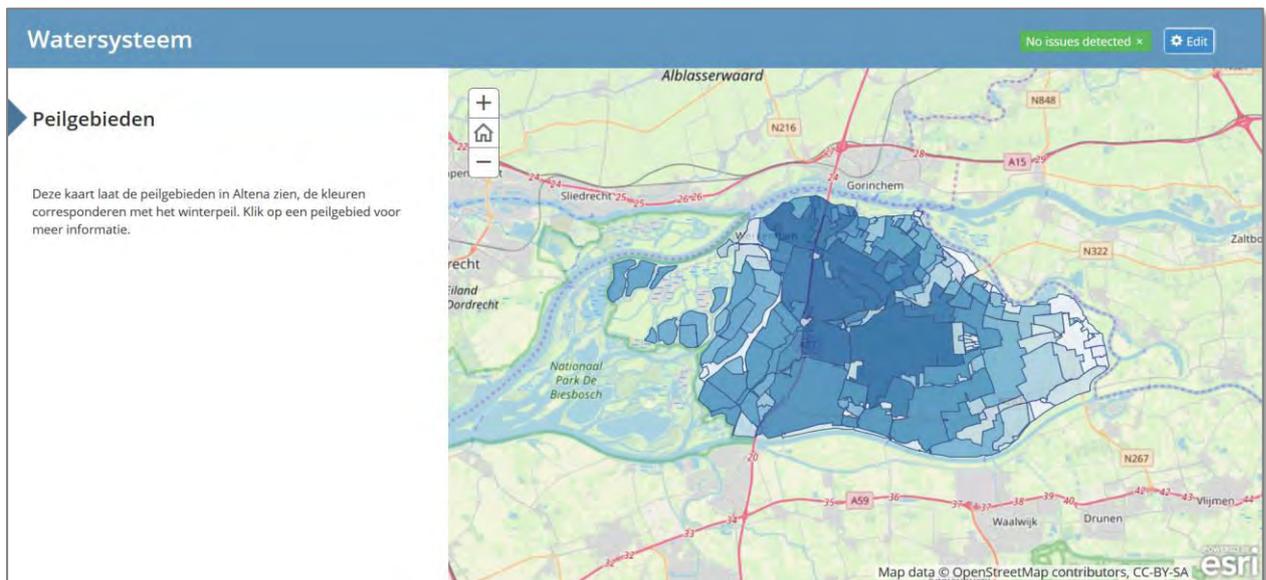


Figure 16: New ESRI Story Map

The page *Maatregelen* (Measures) shows a map where measures taken by the community members can be added, together providing an overview of what is being done in Altena (Figure 18). The map is based on Google Maps with a plugin for placeholders. Water board and municipality employees have a WordPress account for the website to be able to add their measures to the map. Above the map is a link to a form where citizens can share their measures, which are added manually. Different pictograms are available to indicate measures taken in the house, garden, street, park and rural areas (Figure 17). Colours indicate the current status (orange for 'planned', blue for 'in progress' and green for 'finished').



Figure 17: Pictograms for map with measures

Samen aan de slag

De gemeenten en het waterschap doen er alles aan om wateroverlast te beperken of te voorkomen. Maar je kunt ook zelf meehelpen je omgeving waterbestendiger te maken. Bekijk hier wat je zelf kunt doen en wat anderen doen. Deel je initiatieven om anderen te inspireren!

Grip op water in Altena

Jouw initiatief ook op deze kaart? Deel het hier met ons.

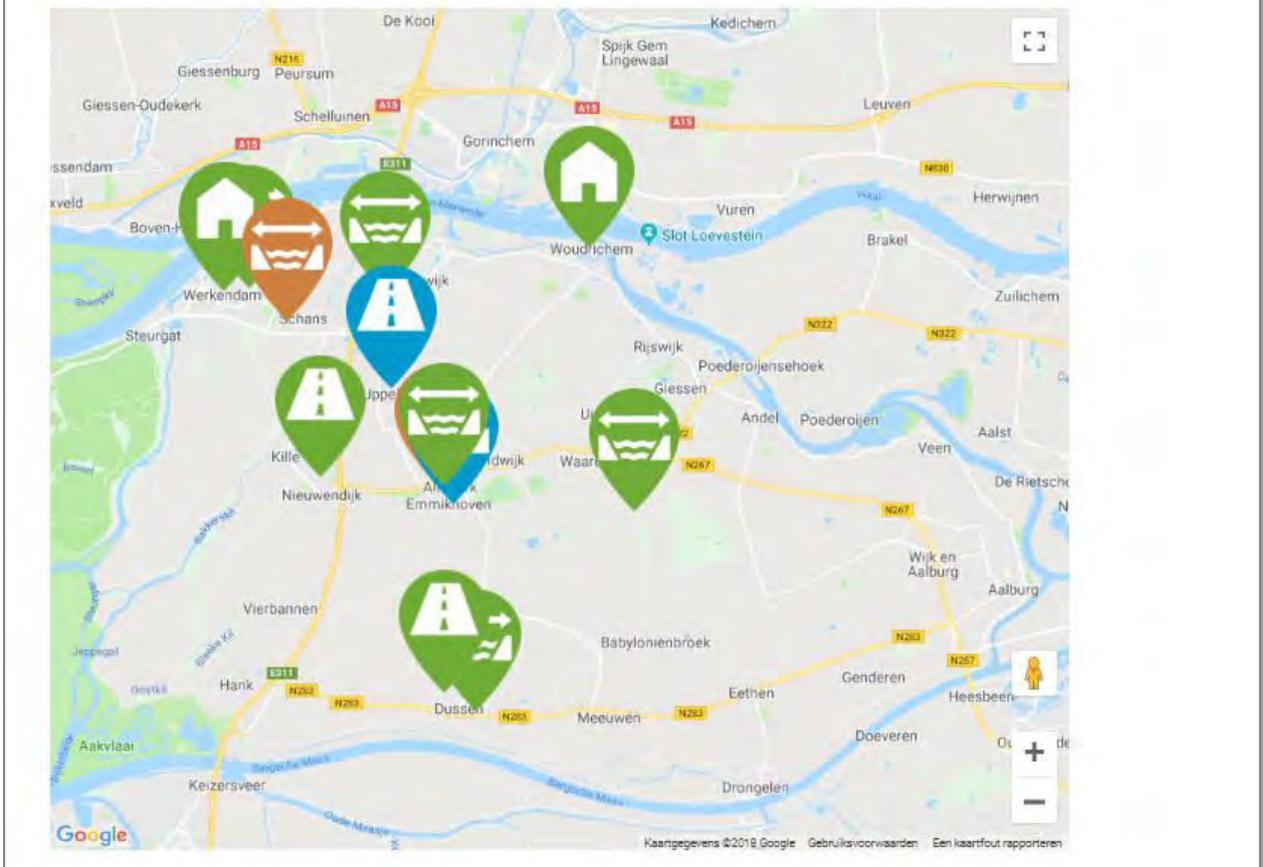


Figure 18: Page *Maatregelen* (upper part)

The page furthermore contains short descriptions and videos of measures to take and links to pages with more detailed information (Figure 19).

Wat kun je zelf doen in je tuin?

Bekijk ook dit filmpje van Stichting RIONED



Tegels eruit, groen erin!

Minder tegels in de tuin of straat zorgen ervoor dat regenwater niet bovengronds wegstroomt.

[Lees meer](#)



Regenton

Een regenton helpt om water op te slaan bij hevige regenval.

[Lees meer](#)



Infiltratiekragen

Infiltratiekragen worden gebruikt voor ondergrondse berging van overtollig regenwater.

[Lees meer](#)

Wat kun je zelf doen in je huis?

Bekijk ook dit filmpje van Stichting RIONED



Figure 19: Page *Maatregelen* (lower part)

The page *Wateroverlast* (Water nuisance) provides the contact information of the authorities in case of flooding in the side bar (Figure 20). The main page provides information on what to do in case of flooding and a gallery with pictures from the last flooding event in 2015 (Figure 21).

Wateroverlast

Is er wateroverlast in jouw buurt? Vul dit formulier in en help ons mee wateroverlast in kaart te brengen.

Let op: deze informatie gaat niet automatisch naar gemeente of waterschap. Gebruik de contactgegevens in de kolom rechts om wateroverlast te melden bij gemeente of waterschap.



Wat moet je doen bij wateroverlast?

Acuut gevaar

Bel de brandweer via 112 bij acuut gevaar voor mens of dier, zoals

- risico of kortsluiting of brand
- je kunt jezelf niet in veiligheid brengen

Geen acuut gevaar

Meld wateroverlast bij je gemeente als je woning of bedrijf blijft onderlopen als gevolg van knelpunten in de openbare ruimte, zoals:

- verstopte riolering
- problemen met de afwatering
- losliggende putdeksels

Geen acuut gevaar

Meer informatie

Melden wateroverlast

Meldpunt gemeente Aalburg

Meldformulier wateroverlast:
gemeente Werkendam

Melden wateroverlast gemeente
Woudrichem: 0183-308277

Melden wateroverlast Waterschap
Rivierenland: 0344-649090

Wateroverlast 2014 en 2015

Dossier wateroverlast Waterschap
Rivierenland

Nieuwsbrieven gemeente Werkendam

Figure 20: Page *Wateroverlast* (upper part)

Wateroverlast 2014 en 2015

In juli 2014 en augustus 2015 heeft het Land van Heusden en Altena te kampen gehad met extreme neerslag. In het stedelijke en landelijke gebied is op veel plaatsen wateroverlast opgetreden en schade ontstaan.

Op deze pagina kun je zien welke maatregelen gemeenten, waterschap, organisaties en burgers hebben genomen om wateroverlast in de toekomst te beperken. Help je ook mee Altena waterbestendiger te maken?

Foto's

Heb je foto's van wateroverlast? Deel ze met ons via dit formulier of e-mail.



© Waterschap Rivierenland

Figure 21: Page *Wateroverlast* (lower part)

The *Forum* page does not yet contain the actual forum, since an empty forum is not inviting for asking questions. We are collecting questions through the online form on the *Forum* page (Figure 22) and through offline meetings, which we will use to fill the forum before we activate it.

The screenshot shows a web form titled "Praat mee!". At the top, there are four bullet points: "Wil je jouw ervaringen met het aanleggen van een groen dak delen?", "Heb je hulp nodig bij het afkoppelen van je regenpijp?", "Vraag je je af waarom het waterpeil aangepast wordt als de sloten gemaaid worden?", and "Wil je meehelpen met de activiteiten van Grip op water Altena?". Below these is a paragraph: "Deel jouw vragen en tips met onderstaand formulier. We nemen je bijdrage mee bij het vullen van het forum en informeren je zodra het forum online is." The form contains four input fields: "Je naam (verplicht)", "Je e-mailadres (verplicht)", "Titel vraag/tip", and "Omschrijving". At the bottom, there is a checkbox labeled "Ik ben geen robot" next to a reCAPTCHA logo and the text "reCAPTCHA Privacy / Toestemming". A "Verzenden" button is located below the checkbox.

Figure 22: Page *Forum*

The page *Over ons* (About us) contains more information about Grip op water Altena and Ground Truth 2.0 (Figure 23). The Grip op water Altena flyer is available for download.

Grip op water Altena



Dit is de startgroep van Grip op water Altena tijdens de Workshop van 13 juni 2017.

Met Grip op water Altena willen burgers, organisaties, gemeenten en waterschap samen het Land van Heusden en Altena klimaatbestendiger maken. Dit doen we door:

- De uitwisseling van waarnemingen en informatie over het weer- en watersysteem te faciliteren
- Een kennisplatform op te zetten met tips om zelf maatregelen te treffen tegen wateroverlast
- Korte communicatielijnen te ondersteunen en inzicht te geven in plannen en activiteiten wat betreft waterbeheer
- Een open dialoog tussen alle betrokken partijen mogelijk te maken en het netwerk uit te breiden tot een echte watercommunity.

We zijn begonnen met een kleine groep mensen die meer grip op water in hun omgeving willen krijgen. We zijn continu op zoek naar versterking van enthousiaste burgers, organisaties en bedrijven die Altena waterbestendiger willen maken. Dit kan bijvoorbeeld door mee te denken, waarnemingen door te geven of activiteiten te organiseren.

Wil je meehelpen, meld je dan aan!

Download onze flyer:



Figure 23: Page *Over ons*, Grip op water Altena

The page *Aanmelden* (Register) contains a login form where users can log in or register for Grip op water Altena. Forum functionality (adding posts and commenting to posts) will only be available for registered users (Figure 24).

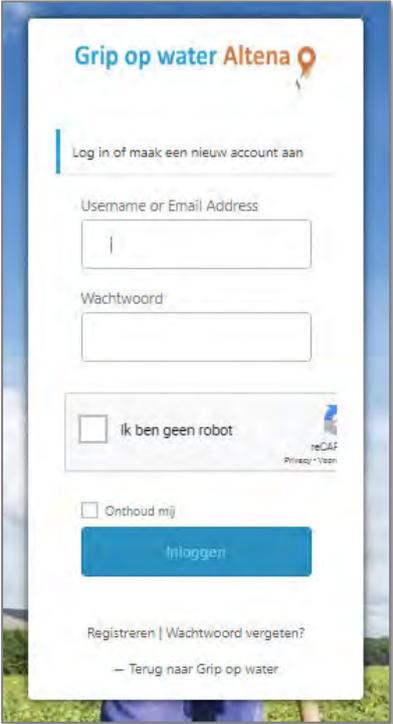


Figure 24: Register or log in for Grip op water Altena

The Twitter page of Grip op water Alتنا (https://twitter.com/gripopwater) is used to share news from the observatory and other related sources and to get in contact with a wider audience (Figure 25). The overview of tweets always starts with a pinned tweet providing the link to Ground Truth 2.0 and the acknowledgement of EU H2020 funding.



Figure 25: Twitter page of Grip op water Alتنا

The Facebook page of Grip op water Altena (<https://www.facebook.com/gripopwateraltena/>) is used to share news, invite comments and get in contact with a wider audience (Figure 26).

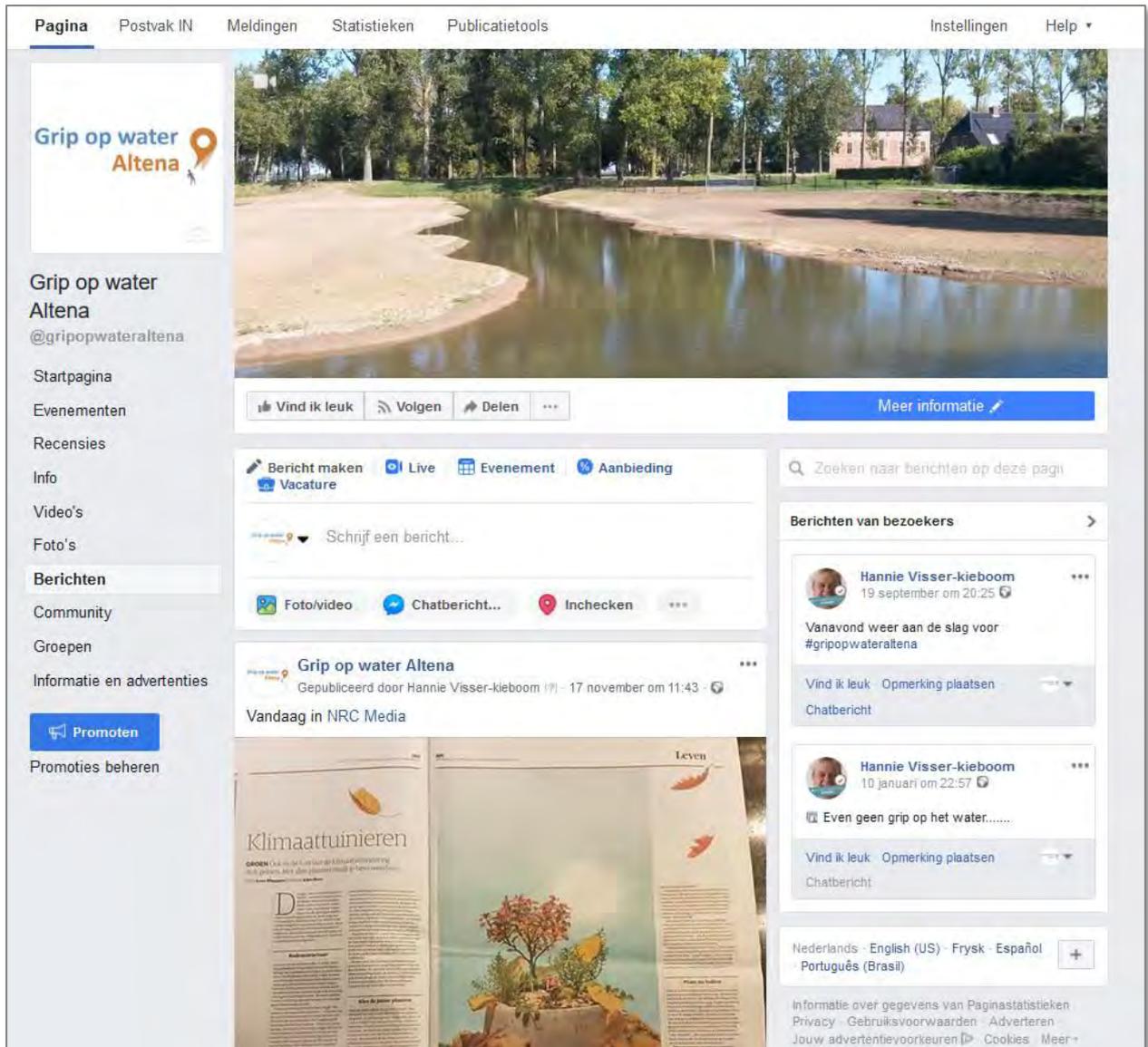


Figure 26: Facebook page of Grip op water Altena

The matching of the tools, headlines and platform content is presented in Table 3 and Table 4.

Table 3: Development of the technical platform Grip op water Altena. Technical design and integration of components

SECOND VERSION PLATFORM IMPLEMENTATION					
HEADLINES	SUBHEAD LINES	YES/NO	WHY NOT?	TOOL	WHERE?
DISCOVER THE OBSERVATORY	Read portal/info pages	yes		WordPress	http://altena.gripopwater.nu
	Watch videos	no	Not applicable		
	Play games/do quizzes	no	Not applicable		
	Access public data/materials	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart http://altena.gripopwater.nu/maatregelen
	Take guided tours	no	Not applicable		
JOIN THE COMMUNITY	Register account/agree terms	yes		WordPress (plugin)	http://altena.gripopwater.nu/wp-login.php
	Provide information required for user assessment/verification	no	Not applicable		
	Create profile & link to other users	no	Not applicable		
	Choose notifications	yes		Twitter, Facebook, e-mail	https://twitter.com/gripopwater , https://www.facebook.com/gripopwateraltena/

	channels				
SECOND VERSION PLATFORM IMPLEMENTATION					
HEADLINES	SUBHEADLINES	YES/NO	WHY NOT?	TOOL	WHERE?
SUBMIT AND PROCESS DATA	Submit open observations for exploration and discovery	yes		WordPress, Google Maps, Google Maps Placemark, Esri Survey123	http://altena.gripopwater.nu/maatregelen https://survey123.arcgis.com/share/594fe1fb20414c899a35f87a804963db
	Send notifications to "go and observe"	yes		News item, Twitter, Facebook, e-mail	http://altena.gripopwater.nu/digitale-tuinenquete/
	Submit observations according to research protocols and instructions	no	Not applicable for the current observations		
	Add tags and meta-data	no	Not applicable		
	Provide comments on observations	no	Not applicable		
	Integrate external data sets	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart

SECOND VERSION PLATFORM IMPLEMENTATION

HEADLINES	SUBHEADLINES	YES/NO	WHY NOT?	TOOL	WHERE?
SUBMIT AND PROCESS DATA	Validate/process scientifically	no	Not applicable		
EVALUATE RESEARCH ACTIVITIES OR POLICY/ STEWARDSHIP RESULTS	Rate and review activities	no	Possibly offline		
	Launch or respond to surveys	yes		Google Forms	https://docs.google.com/forms/d/e/1FAIpQLSewcCVz2d06NrzyMdH1bPIrQEnvw1Q07-v7LXANMKmthXI6Vw/closedform
	Post or review results data	yes	final platform		No results yet, present via news item and link on home page
	Discuss results	yes		Public events	
TRAIN AND LEARN	View instruction videos	no	Current observations do not require instructions		
	Access/download manuals and field guides	no	Current observations do not require instructions		
	Test knowledge	no	Not applicable		

	Create and get feedback on test submissions	no	Not applicable		
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SECOND VERSION PLATFORM IMPLEMENTATION					
HEADLINES	SUBHEADLINES	YES/NO	WHY NOT?	TOOL	WHERE?
TRAIN AND LEARN	Develop personal competencies	no	Not applicable		
USE KNOWLEDGE HUB TO UPLOAD OR ACCESS EXISTING DATA, INFORMATION AND SERVICES	Search/Browse observatory data	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart
	Browse observatory database	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart
	View maps and visualizations	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart
	Upload existing data and information	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart
	Use CO knowledge hub	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart

	Use enhanced services	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart
INFLUENCE BROADER POLICY AGENDAS	Participating decision makers	yes		WordPress	http://altena.gripopwater.nu
REACH OUT AND RAISE AWARENES S	Share contents on social media	yes		WordPress (plugin)	http://altena.gripopwater.nu https://twitter.com/gripopwater https://www.facebook.com/gripopwateraltena/

SECOND VERSION PLATFORM IMPLEMENTATION

DLINES	SUBHEADLINES	YES/NO	WHY NOT?	TOOL	WHERE?
	Create, send or read newsletters	no	People already get too many newsletters, maybe send summary of recent posts		
AND RAISE S	Download information /promotion materials	yes		Download pdf flyer	http://altena.gripopwater.nu/files/pwaterAltena_website.pdf
	Launch or take part in online campaigns	no	Not applicable		
	Find/join/promote offline activities	Yes		WordPress, Twitter, Facebook	http://altena.gripopwater.nu https://twitter.com/gripopwater https://www.facebook.com/gripopwateraltena/

DISCUSS AND SET THE CO AGENDA FOR RESEARCH AND NATURAL RESOURCE MANAGEMENT	Post concerns/ideas in discussion fora	yes/no	Forum functionality implemented, but Facebook /Twitter currently preferred	Facebook, Twitter	https://twitter.com/gripopwater https://www.facebook.com/gripopwateraltena http://altena.gripopwater.nu/forum/
	Take part in (live) online discussions	yes		Facebook, Twitter	https://twitter.com/gripopwater https://www.facebook.com/gripopwateraltena
	Organize offline activities	yes		WordPress, WhatsApp	http://altena.gripopwater.nu WhatsApp group
	Interpret exploratory data and set internal agenda	no	Not applicable		
	Develop a shared vision	yes		WordPress	http://altena.gripopwater.nu

SECOND VERSION PLATFORM IMPLEMENTATION					
HEADLINES	SUBHEADLINES	YES/NO	WHY NOT?	TOOL	WHERE?
SUPPORT IMPLEMENTATION OF PLANS AND POLICES WITH MONITORING AND INFORMATIO	Communicate new policies/plans	yes		WordPress, Twitter, Facebook	http://altena.gripopwater.nu https://twitter.com/gripopwater https://www.facebook.com/gripopwateraltena
	Access info how to comply/participate	yes		WordPress, flyer	http://altena.gripopwater.nu/doe-mee/

N SHARING	Create, promote or find offline activities	yes		WordPress, Twitter, Facebook	http://altena.gripopwater.nu/news https://twitter.com/gripopwater https://www.facebook.com/gripopwateraltena
	Track progress of activities	yes		WordPress, Twitter, Facebook	http://altena.gripopwater.nu https://twitter.com/gripopwater https://www.facebook.com/gripopwateraltena
	Monitor status of a resource	yes		WordPress, HydroNET and ESRI Story Maps	http://altena.gripopwater.nu/water-op-de-kaart
	Encourage compliance and facilitate communication with formal authorities	yes		WordPress	http://altena.gripopwater.nu
PARTICIPATE IN POLICY CONSULTATIONS AND DESIGN PLANNING ACTIVITIES	Post policy drafts and request feedbacks	yes		WordPress and offline	http://altena.gripopwater.nu
	Provide feedback on policy drafts	yes		WordPress and offline	http://altena.gripopwater.nu
	Organize/Invite to off-line activities	yes		WordPress, Twitter, Facebook	http://altena.gripopwater.nu https://twitter.com/gripopwater https://www.facebook.com/gripopwateraltena

SECOND VERSION PLATFORM IMPLEMENTATION					
HEADLINES	SUBHEADLINES	YES/NO	WHY NOT?	TOOL	WHERE?
PARTICIPATE IN POLICY CONSULTATIONS AND DESIGN PLANNING	Report on results of the planning process	no	Not applicable		

ACTIVITIES	Platform features to co-design mutually	no	Not applicable		
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Table 4: .Summary of contents of each page of Grip op water Altena website (second version)

Page	Content	Netherlands Story Map Headline - User card
<i>Grip op water Altena</i> [Home page]	Links to all website pages and platform functionalities, Twitter feed.	H1. Discover the observatory - 1.1. Read portal and info pages
<i>Nieuws</i> [News]	Nieuws item about Grip op water Altena activities	H11. Outreach - 11.3. Promote CO (generic)
<i>Water op de kaart</i> [Water on the map]	Maps with external, partly publicly available data	H4. Use CO to upload or access existing data, information and service - 4.3. View maps and visualizations
<i>Maatregelen</i> [Measures]	Stakeholders can upload the measures they have taken, these are visualized on a map. In addition, there is information on the measures that can be taken by different stakeholders.	H3. Submit and process data - 3.1. Submit open observations for exploration and discovery
<i>Wateroverlast</i> [Water nuisance]	Information on past flooding events, who takes care of what and what to do in case of a (threatening) flooding event	H1. Discover the observatory - 1.4. Access public data/materials
<i>Forum</i>	Collection of questions and tips to fill the forum, to be replaced by forum functionality in the future.	H6. Set agenda -6.3. online discussions- (generic)
<i>Over ons</i> [About us]	Introduction of the Dutch demo case, links to the contributing organisations, introduction of the Ground Truth 2.0 project.	H1. Discover the observatory - 1.4. Access public data/materials
<i>Aanmelden</i> [Register]	Register and create a Grip op water Altena account	H2. Join the CO community - 2.1. Register account and agree terms