

Accessibility research 'Ximmio' app for Android

Client

DigiToegankelijk TOP (in connection with the implementation of the Ceder motion on behalf of the Ministry BZK)

Date

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Report version

2.0.0

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Executive summary

Abra has carried out accessibility research on behalf of DigiToegankelijk TOP (in connection with the implementation of the Ceder motion on behalf of the Ministry BZK). Through a sample, we have selected 8 screens. We have checked whether these screens comply with the EN 301 549 standard. This standard references 44 success criteria from the WCAG 2.1.

- We found 41 problems on 8 screens.
- The app passes 29 of the 44 succes criteria.
- The app does not pass the following success criteria:
 - 1. Succes Criterion 1.3.1 Info and Relationships
 - 2. Succes Criterion 1.3.3 Sensory Characteristics
 - 3. Succes Criterion 1.4.1 Use of Color
 - 4. ¬♥ Succes Criterion 1.4.3 Contrast (Minimum)
 - 5. AA Succes Criterion 1.4.4 Resize text
 - 6. 🖟 Succes Criterion 1.4.11 Non-text Contrast
 - 7. 🗟 Succes Criterion 2.1.1 Keyboard
 - 8. 🚜 Succes Criterion 2.4.3 Focus Order
 - 9. 🗉 Succes Criterion 2.4.6 Headings and Labels
 - 10. 🖥 Succes Criterion 3.2.2 On Input
 - 11. A Succes Criterion 3.3.1 Error Identification
 - 12. Succes Criterion 3.3.2 Labels or Instructions
 - 13. Succes Criterion 3.3.3 Error Suggestion
 - 14. Succes Criterion 4.1.2 Name, Role, Value
 - 15. Succes Criterion 4.1.3 Status Messages

The Ximmio team has fixed several issues. The Android app from 54 issues to 41 issues. At least 13 issues have been resolved. The app is not 100% the same so probably more errors have been fixed.

The positives: There are no moving or flashing parts to disturb users. The navigation is consistent and the language is well indicated.

The negative points: the app still contains quite a few issues. Not all content is read aloud.

Some input fields lack accessible names.

Questions about this report can be asked via <u>info@abra.nl </u>. On our website <u>abra.nl </u> you can read more about our services.

1. Introduction

Abra has carried out accessibility research on behalf of DigiToegankelijk TOP (in connection with the implementation of the Ceder motion on behalf of the Ministry BZK). The evaluation method Appt-EM was used for researching. This method has been developed specifically for apps and is based on WCAG-EM. We investigated whether the app complies with the EN 301 549 standard. This standard contains 44 success criteria from the WCAG 2.1 guidelines.

WCAG

WCAG stands for Web Content Accessibility Guidelines. The guideline was originally created for websites, but can also partly be applied to apps. Version 2.1 of the WCAG consists of 4 principles, 13 guidelines and 78 success criteria. The success criteria are divided into three levels: A, AA and AAA. Level A consists of 30 success criteria, level AA of 20 success criteria and level AAA of 28 success criteria. To meet level AA you must also meet level A.

EN 301 549

EN 301 549 is the European standard for digital accessibility. We applied version 3.2.1 of this standard for this research. Apps fall under the 'Software' chapter. For apps, 44 of the 50 success criteria from level A and AA of the WCAG 2.1 apply. Minor adjustments have been made to the notes or definitions for 13 success criteria, often keeping the context the same. The following success criteria are not mandatory for apps: 2.4.1, 2.4.2, 2.4.5, 3.1.2, 3.2.3 and 3.2.4.

Accessibility statement

Government agencies are required by law to optimize the accessibility of their apps. They are held accountable for how far they have progressed. For that accountability, government agencies must make and upload an <u>accessibility statement 2</u>. This report gives a good overview of the level of accessibility.

Support

Abra supports organizations that want to improve the accessibility of their apps. We provide services and software to improve the accessibility of apps. Our reports always contain solutions specifically for apps.

Questions about this report can be asked via <u>info@abra.nl </u>. On our website <u>abra.nl </u> you can read more about our services.

2. Research

Abra has carried out accessibility research on behalf of DigiToegankelijk TOP (in connection with the implementation of the Ceder motion on behalf of the Ministry BZK). This are the details:

App name

Ximmio

Operating system

Android

Tested version

2.0.0 (9)

Installation method

Via appcenter FlutterWestland Ximmio app

Research type

WCAG 2.1 level AA

Applied standard

EN 301 549 2 with WCAG 2.1 2

Research method

Appt-EM 년, based on WCAG-EM 년

Client

DigiToegankelijk TOP (in connection with the implementation of the Ceder motion on behalf of the Ministry BZK)

Researcher

Paul van Workum

Reviewer

Jan Jaap de Groot

Date

29 June 2023

2.1. Scope

The research is based on a sample. Part of the app has been selected to draw conclusions about the entire app. Problems that occur several times on a screen might only be described once.

Overview of the selected screens

Nr	Screen	Path
1	Beginscherm	> Welkom > Home
2	Onboarding: Postcode Beginscherm > Welkom > Home	
3	Afvalkalender	Home > Afvalkalender
4	Containerlocaties	Home > Containerlocaties
5	Afvalwijzer	Home > Afvalwijzer
6	Informatie	Home > Informatie
7	Instellingen	Home > Instellingen
8	Berichten Home > Berichten	

2.2. Devices

The following devices were used during the research:

• Samsung Galaxy S21, Android 13

2.3. Techniques

The app has been developed with the following techniques:

Flutter

3. Results

The research shows that the 'Ximmio' app meets 29 of the 44 success criteria from the guideline.

Results per success criterion

Success criterion	Level	Title	Result
5 1.1.1	А	Non-text Content	Passes
1.2.1	А	Audio-only and Video-only (Prerecorded)	Passes
≜ 1.2.2	А	Captions (Prerecorded)	Passes
1.2.3	А	Audio Description or Media Alternative (Prerecorded)	Passes
2.4 1.2.4	AA	Captions (Live)	Passes
AD)) 1.2.5	AA	Audio Description (Prerecorded)	Passes
≣ 1.3.1	А	Info and Relationships	Noes not pass
% 1.3.2	А	Meaningful Sequence	Passes
⋣ 1.3.3	А	Sensory Characteristics	Noes not pass
1.3.4	AA	Orientation	Passes
**** 1.3.5	AA	Identify Input Purpose	Passes
A 1.4.1	А	Use of Color	Noes not pass
♠ 1.4.2	А	Audio Control	Passes
_⊤ ф 1.4.3	AA	Contrast (Minimum)	Noes not pass
_A ∆ 1.4.4	AA	Resize text	Noes not pass
[₸ 1.4.5	AA	Images of Text	Passes

Success criterion	Level	Title	Result
∄å 1.4.10	AA	Reflow	Passes
-∰- 1.4.11	AA	Non-text Contrast	⋈ Does not pass
<u>≜</u> _↑ 1.4.12	AA	Text Spacing	Passes
1.4.13	AA	Content on Hover or Focus	Passes
i 2.1.1	А	Keyboard	⋈ Does not pass
□ 2.1.2	А	No Keyboard Trap	Passes
<u>A</u> 2.1.4	А	Character Key Shortcuts	Passes
2.2.1	А	Timing Adjustable	Passes
<i></i> € 2.2.2	А	Pause, Stop, Hide	Passes
☆ 2.3.1	А	Three Flashes or Below Threshold	Passes
?. 2.4.3	А	Focus Order	⋈ Does not pass
♂ 2.4.4	А	Link Purpose (In Context)	Passes
₸⊒ 2.4.6	AA	Headings and Labels	⋈ Does not pass
	AA	Focus Visible	Passes
ტ 2.5.1	А	Pointer Gestures	Passes
% 2.5.2	А	Pointer Cancellation	Passes
<i>⊘</i> 2.5.3	А	Label in Name	Passes
© 2.5.4	А	Motion Actuation	Passes
强 3.1.1	AA	Language of Page	Passes
⊚ 3.2.1	А	On Focus	Passes

Success criterion	Level	Title	Result
₹ 3.2.2	А	On Input	Noes not pass
≜ 3.3.1	А	Error Identification	Noes not pass
Name 3.3.2	А	Labels or Instructions	Does not pass
3.3.3	AA	Error Suggestion	Does not pass
⊚⊗ 3.3.4	AA	Error Prevention (Legal, Financial, Data)	Passes
4.1.1	А	Parsing	Passes
4.1.2	Α	Name, Role, Value	Does not pass
4.1.3	AA	Status Messages	Does not pass

The following pages contain an explanation of each success criterion and an overview of the findings.



Succes Criterion 1.1.1 - Non-text Content

Ensure that alternative text is available for all content without text. These include images, icons and graphs. Describe what there is to see. People who are blind have this description read aloud through their screen reader. Alternative text can also be useful for anyone who is unsure about the meaning of the content.



Additional information about success criterion 1.1.1 년

Succes Criterion 1.2.1 - Audio-only and Video-only (Prerecorded)

Ensure a transcript is provided when information is only conveyed by audio or images. With podcasts, the information is conveyed only through audio. People who are deaf cannot hear what is being said. In animation films, the information is often only conveyed through images. People who are blind cannot see the images. By making a transcript available, the information can be read instead.



Additional information about success criterion 1.2.1 2

Succes Criterion 1.2.2 - Captions (Prerecorded)

Ensure captions are provided for all videos with sound. People who are hard of hearing, deaf or deafblind depend on captions to understand what is being said. Captions are also useful for anyone who is temporarily unable to perceive sound, for example inside a quiet zone.



Succes Criterion 1.2.3 - Audio Description or Media Alternative (Prerecorded)

Ensure a transcript or audio description is provided for videos where you can't hear what is displayed. The content can then be read in case of a transcript, or heard in case of audio description. If you choose to add a audio description, you also meet success criterion 1.2.5.



Succes Criterion 1.2.4 - Captions (Live)

Ensure real-time captions are available for all live videos with audio. This allows people who need subtitles to directly access the spoken information.



Additional information about success criterion 1.2.4 ₽

AD)) Succes Criterion 1.2.5 - Audio Description (Prerecorded)

Ensure audio description is available when important information is shown which you cannot hear. An extra sound track must be provided where where the visual information is described. This allows people who are blind or have difficulty processing visual information to also understand the content.



Additional information about success criterion 1.2.5 ☑

Succes Criterion 1.3.1 - Info and Relationships

Ensure that the information and relationships on the screen are not only conveyed visually.

Information on the screen must be conveyed to assistive technologies. For example, make sure that headings are not only bold, but also marked as headings in the code.

Relationships on the screen must be usable with assistive technologies. Elements in a list must be navigable one by one. Elements in a table must be navigable by rows and columns.



Solution for success criterion 1.3.1 ₫

Nr	Screen	Problem	Screenshot
1	Afvalkalender	On this screen, there are headings that are not marked-up as headings. Make sure that assistive technology recognizes headings as headings. Either mark the heading "Uw locatie" as heading or group "Uw location" with the adres below. This issue occurs on all screens with the menu present.	© Connected to ACCP Uw locatie Wegedoornpad 16 2691EW s-Gravenzande ES Kalender © Containerlocaties Welk afval waar? Ø Grofvuilmelding Pbd-zakken bestellen Berichten Instellingen Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden.

Nr	Screen	Problem	Screenshot
2	Containerlocaties	The label is not programmatically associated with the related input field. Make sure that by selecting an input field, the screen reader reads the label. The label "Zoeken op adres of afvalgroep" does not get focus and is not connected to the input field.	CONTAINERLOCATIES CONTAINERLOCATIES Coeken op adres of afvalgroup rr Congeldig of onbekend adres Anjerhof Glas Atlantische Oceaan Glas Atlantische Oceaan PMD Atlantische Oceaan Glas III rr, Bewerkingsvak
3	Containerlocaties	On this screen, there are headings that are not marked-up as headings. Make sure that assistive technology recognizes headings as headings. It is about the headings: "Zoeken op adres of afvalgroep" and "Containers in mijn buurt".	CONTAINERLOCATIES CONTAINERLOCATIES Coeken op adres of afvalgroup Vuul hier een adres in Containers in mijn buurt PMD A,J, van Reststraat Glas A,J, van Reststraat Glas Anjerhof Glas Atlantische Oceaan Glas Atlantische Oceaan PMD Atlantische Oceaan Glas Glas Atlantische Oceaan Glas Atlantische Oceaan Glas Atlantische Oceaan Glas Atlantische Oceaan

Nr	Screen	Problem	Screenshot
4	Containerlocaties	The label is not connected to its element. This ensures that the element cannot be activated with voice control. Make sure the label is connected to the element. "verwijderen, knop" is not associated to the searchfield. The label should indicate what information will be deleted. "Zoekveld leegmaken, knop" would be a better label.	CONTAINERLOCATIES Coeken op adres of afvalgroup Anjerhof Containers in mijn buurt Glas Anjerhof Verwijderen, Knop
5	Afvalwijzer	On this screen, there are headings that are not marked-up as headings. Make sure that assistive technology recognizes headings as headings. It is about the bold headings: "Wat wel/wat niet?" and "Wel" and "Niet" etc.	afvalverwerkingsbedrijf verwerkt het GFT-afval tot compost en energie. De vrijgekomen warmte uit de verwerkingsinstallatie wordt o.a. gebruikt voor de stadsverwarming. Wat wel/wat niet? WEL Etensresten, zoals: Schillen en resten van groente, fruit en aardappelen Brood- en kaaskorsten Resten van gekookt eten, vlees en vis Eierschalen Pinda- en notendoppen

Nr	Screen	Problem	Screenshot
6	Instellingen	On this screen, there are headings that are not marked-up as headings. Make sure that assistive technology recognizes headings as headings. It is about the headings "Uw adresgegevens", "Berichten" and other similar headings.	INSTELLINGEN INSTELLINGEN Uw adresgegevens Postcode 1155 (AB) Huisnummer 16 Controleren Wegedoornpad 16 2691EW s-Gravenzande Ga Verder Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit Versie: 2.0.0.9 Uw adresgegevens <

Succes Criterion 1.3.2 - Meaningful Sequence

Ensure that the order which assistive technologies follow reflect the meaning of the content. Otherwise, users of assistive technology may misunderstand the content. Most content is presented from left to right, from top to bottom. The information should also be presented to users of assistive technologies in this way.



Additional information about success criterion 1.3.2 ☑



Succes Criterion 1.3.3 - Sensory Characteristics

Ensure instructions can be understood by everyone. Instructions that only use shape, size, location, orientation or sound are not understandable for everyone. For example, people who are blind cannot see shape. Combine multiple properties to allow everyone to understand the instructions.



X Does not pass

Solution for success criterion 1.3.3 ♂

Nr	Screen	Problem	Screenshot
7	Containerlocaties	The legend of the map has reference to symbol/shape. This information is inaccessible to the assistive technology. Make sure that information is not dependent on the visual representation. The list is an alternative for the map. It is not possible to filter on a garbage type or to search for a nearby garbage point. The list is for that reason not an equal alternative. Make sure the functionality of the map are also available in the list. People with a keyboard interface are dependent on this.	CONTAINERLOCATIES Coeken op adres of afvalgroup Vuul hier een adres in Containers in mijn buurt PMD A,J, van Reststraat Glas A,J, van Reststraat Glas Anjerhof Glas Atlantische Oceaan PMD Atlantische Oceaan Glas Atlantische Oceaan Glas Atlantische Oceaan Glas Atlantische Oceaan Glas Atlantische Oceaan

Succes Criterion 1.3.4 - Orientation

Ensure that the screen content rotates with the device display. All screens of an app must be usable in all orientations. Users in wheelchairs sometimes have their device mounted horizontally. People who use an enlarged font also often rotate their device so that more words fit on the screen.



Additional information about success criterion 1.3.4 ☑

Succes Criterion 1.3.5 - Identify Input Purpose

Ensure it is clear what information is expected from users inside input fields. Set the correct input type to allow auto-completion, e.g. for e-mail addresses. This is faster for everyone and prevents errors for users of assistive technology.



Additional information about success criterion 1.3.5 ☑



Succes Criterion 1.4.1 - Use of Color

Ensure colour isn't the only way information is conveyed. Information which is conveyed only by colour cannot be perceived by everyone. For example, also use shape to give instructions, e.g. reference a green checkmark or red cross. Inside a legend, use numbers in addition to colour, to allow people who are colour blind to find what they are looking for.



Does not pass

Solution for success criterion 1.4.1 ☑

Nr	Screen	Problem	Screenshot
8	Containerlocaties	Color is used to convey information. Make sure that another visual cue is used, for example, the shape of the lines.	10:08 ■ CONTAINERLOCATIES 209 161 159 249 283 301 Sint © nu
		It is about the indicators where garbage containers are on the map.	And the Andreas of the Control of th
		An exception applies to online maps and mapping services. Maps themselves do not have to be accessible. You can try to make it as accessible as possible.	75 67 59 51 45 39 31 25 19 13 7
			© OpenStreetMap © OpenStreetMap © OpenStreetMap



Succes Criterion 1.4.2 - Audio Control

Ensure that audio which lasts longer than three seconds can be paused or stopped. It is disturbing if audio cannot be paused, especially for people who use a screen reader. As a result, they can no longer hear the screen reader's voice properly. For people who have difficulty concentrating, it is also nice if audio can be paused. This allows them to focus better on the other information.



Additional information about success criterion 1.4.2 년

¬♥ Succes Criterion 1.4.3 - Contrast (Minimum)

Ensure that the contrast ratio between the text colour and background colour is at least 4.5:1. For bold and large text, a ratio of 3:1 is sufficient. By maintaining these ratios, visually impaired and colour blind users can usually read the text well. In addition, this makes an app easier for everyone to use, for example outside in the sun.



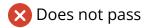
Solution for success criterion 1.4.3 ♂

Nr	Screen	Problem	Screenshot
9	Afvalkalender	The text contrast ratio is too low. Provide a minimum contrast of 4.5:1. It is about the text "Uw location", the adres and the text "Deze app". The contrast is 3:1. This issue occurs on all screens with the menu present.	Uw locatie Wegedoornpad 16 2691EW s-Gravenzande Est Kalender ○ Containerlocaties ♣ Welk afval waar? ○ Grofvuilmelding Pbd-zakken bestellen △ Berichten ○ Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden. 2691EW s-Gravenzande

Nr	Screen	Problem	Screenshot
10	Containerlocaties	The text contrast ratio is too low. Provide a minimum contrast of 4.5:1. It is about the placeholder text "Vuul hier". The contrast is 2,6:1. Suggestion: The label of the input field and the search field both have a spelling mistake - "VuUl" (extra U) and "AfvalgroUp" (U instead of E)	Zoeken op adres of afvalgroup Vuul hier een adres in Containers in mijn buurt Glas Bleijenburg PMD Bleijenburg Textiel Buizerdhorst Buizerdhorst Glas Buizerdhorst PMD Buizerdhorst Buizerdhorst PMD Burgemeester Hoogenboomstraat Moor Ladon Bewerkingsvak, Vuul hier een adres in
11	Containerlocaties	The text contrast ratio is too low. Provide a minimum contrast of 4.5:1. The contrast of the error message: "Ongeldig of onbekend adres" is 3.3:1.	CONTAINERLOCATIES CONTAINERLOCATIES Coeken op adres of afvalgroup rr Ongeldig of enbekend adres Anjerhof Glas Atlantische Oceaan Glas Atlantische Oceaan PMD Atlantische Oceaan Glas Atlantische Oceaan Atlantische Oceaan Atlantische Oceaan Atlantische Oceaan Atlantische Oceaan Atlantische Oceaan

AA Succes Criterion 1.4.4 - Resize text

Ensure that the text in your app supports resizing. Users specify their preferred font size in the system settings. Text in your app should resize according to the preferred font size. This is especially important for visually impaired users because otherwise they might not be able to read the text. Text should not be abbreviated with dots.



Solution for success criterion 1.4.4 ♂

Nr	Screen	Problem	Screenshot
12	Onboarding: Postcode	(Parts of) text on this screen are no longer visible when the text is magnified to 200%. Make sure that all text remains available to users who use the app with an enlarged text. The button "Ga Verder" is not fully visible. Implement a scroll function to make all elements reachable.	Postcode Chone World 2691 EW Huisnummer 16 Controleren Wegedoornpad 16 2691EWs-Gravenzande
13	Containerlocaties	(Parts of) text on this screen does not scale when the text is scaled to 200%. Make sure all text remains readable when magnified. It is about the indicators where garbage containers are on the map/below the map.	TOOR CONTAINERLOCATIES CONTAINERLOCATIES 209 161 249 283 301 Sint Onu 75 67 67 59 51 45 39 13 7 © OpenStreetMap

Nr	Screen	Problem	Screenshot
14	Instellingen	(Parts of) text on this screen are no longer visible when the text is magnified to 200%. Make sure that all text remains available to users who use the app with an enlarged text. Suggestion: In landscape modus there is very limited space for the content. We suggest to place the version number inside the scroll view, instead of making it overlay other content.	INSTELLINGEN

T Succes Criterion 1.4.5 - Images of Text

Ensure images are not used to display text. Always use plain text to allow the text to be adapted to the user's preferences. The font size inside an image often scales to a limited extent or not at all. As a result, the text cannot be read by everyone.

Exception: If an image of text does scale or if text as image is specifically needed to convey information.



Additional information about success criterion 1.4.5 2

∄ Succes Criterion 1.4.10 - Reflow

Ensure that all content on the screen remains readable even with the largest font. Content should be readable without having to scroll in two directions. Because the text is displayed larger, it can push other elements off the screen. Ensure content can still be reached, for example, by scrolling vertically.



Additional information about success criterion 1.4.10 ♂

- Succes Criterion 1.4.11 - Non-text Contrast

Ensure that the content on the screen has a contrast of at least 3:1 with the surrounding colour. Think of graphic elements such as icons, buttons and input fields. By keeping this ratio, visually impaired and colour blind users can distinguish the content well. In addition, this makes an app easier for everyone to use, for example outside in the sun.



Solution for success criterion 1.4.11 ♂

Nr	Screen	Problem	Screenshot
15	Containerlocaties	The contrast of interface elements on this screen is less than 3.0:1. Provide a minimum contrast of 3.0:1. The contrast of the "Glas container" yellow is 1,5:1. Also the elements for the other garbage types do not have sufficient contrast.	CONTAINERLOCATIES Analytical Container Co

$\frac{A}{A}$ Succes Criterion 1.4.12 - Text Spacing

Ensure there is enough space between paragraphs, letters and words. People with dyslexia can read faster as a result. People who are visually impaired can also read the text more easily. White space can also help people with a cognitive impairment to distinguish parts from each other.



Additional information about success criterion 1.4.12 ☑

Succes Criterion 1.4.13 - Content on Hover or

Focus

Ensure it possible to hide content which appears automatically when touching an element. It often happens that an element is touched accidentally. If new content appears, it may affect the completion of a task. Automatic content mainly causes problems for users of assistive technologies.

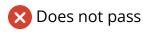


Additional information about success criterion 1.4.13 ♂



Succes Criterion 2.1.1 - Keyboard

Ensure that all functionality in the app can be used with assistive technologies. People who are blind use the screen reader. People with a motor disability use switch control, voice control and/or the keyboard. These assistive technologies are built into the operating system.



Solution for success criterion 2.1.1 ♂

Nr	Screen	Problem	Screenshot
16	Afvalkalender	The screen/parts of the screen cannot be operated with an external keyboard. Make sure that all functionality is available using an external keyboard. With an external keyboard the menu cannot be reached with the screen reader. This issue occurs on all screens with the menu present. Other screens we did not test as we cannot reach them with the Keyboard.	Uw locatie Wegedoornpad 16 2691EW s-Gravenzande Estate Kalender ○ Containerlocaties A Welk afval waar? ○ Grofvuilmelding □ Pbd-zakken bestellen ○ Berichten ○ Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden.

Nr	Screen	Problem	Screenshot
17	Containerlocaties	The screen/parts of the screen cannot be operated with an external keyboard. Make sure that all functionality is available using an external keyboard. The list is an alternative for the map. It is not possible to filter on a garbage type or to search for a nearby garbage point. The list is for that reason not an equal alternative. Make sure the functionality of the map are also available in the list. People with a keyboard interface are dependent on this.	CONTAINERLOCATIES Zoeken op adres of afvalgroup Anjerhof Containers in mijn buurt Glas Anjerhof
18	Afvalwijzer	The screen/parts of the screen cannot be operated with an external keyboard. Make sure that all functionality is available using an external keyboard. This map does not have a function. By making it an image the map becomes decorative. An exception applies to online maps and mapping services. Maps themselves do not have to be accessible. You can try to make it as accessible as possible.	WELK AFVAL WAAR? Wel huisvuil wordt in onze gemeente aan huis opgehaald. Dit gebeurt op vaste dagen of op afspraak. Huisvuil kunt u ook ook zelf wegbrengen naar een milieustraat of naar een milieu-eiland. Zoek in scheidingswijzer GFT+e GFT+e (Groente-, Fruit En Tuinafval + Etensresten) gooit u in de groene kliko met bruine deksel, of (in geval van hoogbouw) in de ondergrondse verzamelcontainer. Een afvalverwerkingsbedrijf verwerkt het GFT-afval tot compost en energie. De vrijgekomen warmte uit de verwerkingspingsingtallatie wordt



□ Succes Criterion 2.1.2 - No Keyboard Trap

Ensure users of assistive technologies can't get stuck anywhere in the app. It is especially common that overlays cannot be closed. Many assistive technologies do not support clicking next to an overlay. As a result, the user gets stuck. You must include a close button which assistive technologies can activate.



Additional information about success criterion 2.1.2 2



Succes Criterion 2.1.4 - Character Key Shortcuts

Ensure that shortcuts cannot be accidentally activated when using assistive technologies. Many assistive technologies mimic keystrokes to perform actions. This can result in unwanted shortcuts being activated. Make it possible to change or disable shortcuts.



Additional information about success criterion 2.1.4 d



(A) Succes Criterion 2.2.1 - Timing Adjustable

Ensure everyone has enough time to complete tasks. People with disabilities sometimes need more time to navigate through a screen. Operating an app with assistive technologies is often slower compared to touch. People with learning disabilities, dyslexia and cognitive impairments may also need more time. If there are time limits, then the time limit should be adjustable. It's best to make sure there are no time limits.



Additional information about success criterion 2.2.1 2



Succes Criterion 2.2.2 - Pause, Stop, Hide

Ensure it is possible to pause, stop or hide moving parts on the screen. Users of assistive technologies may find it difficult to use animated elements. After pausing or stopping animations, interaction is often possible. Flashing content makes it more difficult for people with attention disorders to stay focused. Hiding the distracting content makes it easier for them to use an app.



Additional information about success criterion 2.2.2 2

♦ Succes Criterion 2.3.1 - Three Flashes or Below

Threshold

Ensure no more than three flashes per second are shown anywhere in the app. This can cause an epileptic seizure. Warnings do not work well, because they are often overlooked. This is especially the case with children who cannot read yet.



Additional information about success criterion 2.3.1 2

Succes Criterion 2.4.3 - Focus Order

Ensure assistive technologies use a logical focus order when navigating. The order of navigating a screen is usually from left to right, from top to bottom. Make sure assistive technologies use an equivalent focus order. The difference with success criterion 1.3.2 is that this only concerns the focus order.



Solution for success criterion 2.4.3 ♂

Nr	Screen	Problem	S	cr	eeı	nsh	ot			
19	Afvalkalender	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements.		## Second Secon		n Tval				
		The issue is about the "26"-button				-	: aa:	22		
		as this is the current day. The	ı	ma	di	yu	ni 20:	23 vr	za	zo
		screen reader does not go to the		29	30	31	1	2	3	4
		element, but this element gives users insight in what the current		5	6	7	8	9	10	11
		day is. Make this element focusable		12	13	14	15	16	17	18
		to make it read by screen readers.		19	20	21	22	23	24	25
		to make leredd by sereen redders.	1	26	27	28	29	30	1	2
					111	'	0		<	

Nr	Screen	Problem	Screenshot
20	Afvalkalender	After landing on the screen, the focus of the screen reader does not go to the first element of the screen. Make sure that no elements are skipped. People with visual impairments then miss part of the screen. After opening the menu the focus of the screen reader should be placed at "uw location". This issue occurs on all screens with the menu present.	© Connected to ACCP Uw locatie Wegedoornpad 16 2691EW s-Gravenzande Estate Kalender © Containerlocaties Welk afval waar? Ø Grofvuilmelding Pbd-zakken bestellen Berichten Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden. Kalender, Knop
21	Containerlocaties	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. The focus order when using the screen reader in landscape mode is not correct. See the screenrecording: https://storage.ontoegankelijk.nl/attachments/1364/ Ximmio_2023-06-26-08-23-31.3gp Ximmio_2023-06-26-08-23-31.3gp Ximmio_2023-06-26-08-23-31.3gp https://storage.ontoegankelijk.nl/attachments/1364/ Ximmio_2023-06-26-08-23-31.3gp https://storage.ontoegankelijk.nl/attachments/1364/ Ximmio_2023-06-26-08-23-31.3gp https://storage.ontoegankelijk.nl/attachments/1364/ Ximmio_2023-06-26-08-23-31.3gp https://storage.ontoegankelijk.nl/attachments/1364/	CONTAINERLOCATIES Kies welke afvalgroep u wilt zien (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c

Nr	Screen	Problem	Screenshot
22	Containerlocaties	The screen reader's focus should be on the error message. The focus remains on the underlying screen. It is about the error message: "Ongeldig of onbekend adres".	CONTAINERLOCATIES CONTAINERLOCATIES Coeken op adres of afvalgroup rr Congeldig of onbekend adres Anjerhof Glas Atlantische Oceaan Glas Atlantische Oceaan PMD Atlantische Oceaan Glas Atlantische Oceaan Allantische Oceaan Allantische Oceaan Allantische Oceaan Allantische Oceaan Allantische Oceaan Allantische Oceaan
23	Afvalwijzer	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. The text "Veel huisvuil" is not in the accessibility tree and does not get focus when using the screen reader.	WELK AFVAL WAAR? Welk AFVAL WAAR? Welk in scheidingswijzer Wegbeurt op vaste dagen of op afspraak. Huisvult kunt u ook ook zelf wegbrengen naar een milieustraat of naar een milieu eiland. Zoek in scheidingswijzer GFT+e GFT+e (Groente-, Fruit En Tuinafval + Etensresten) gooit u in de groene kliko met bruine deksel, of (in geval van hoogbouw) in de ondergrondse verzamelcontainer. Een afvalverwerkingsbedrijf verwerkt het GFT-afval tot compost en energie. De vrijgekomen warmte uit de verwerkingsinstallatie wordt

Nr	Screen	Problem	Screenshot
24	Berichten	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. The focus goes directly to "Je hebt geen bericht" after navigating from the header "Berichten". Only after the focus of the screen reader goes to the paragraph.	BERICHTEN Op deze pagina houden we u op de hoogte van wijzigingen in de dienstverlening, bijzondere omstandigheden en andere wetenswaardigheden met betrekking tot de inzameling van alval. Je hebt geen bericht!
25	Instellingen	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. After the heading the focus goes tot the version number. Visually this element is at the bottom of the screen. The focus should first go to earlier elements.	INSTELLINGEN Uw adresgegevens Postcode 1155 (AB) Huisnummer 16 Controleren Wegedoornpad 16 2691EW s-Gravenzande Ga Verder Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamitait Versie: 2.0.0.9

☑ Succes Criterion 2.4.4 - Link Purpose (In Context)

Ensure links are clear without the surrounding content. Users of assistive technologies can request an overview of all links on the screen. It is important that the purpose of each link is clear. A common mistake is to name a link 'here'. Without the surrounding text it is not clear what you will read more about.



Additional information about success criterion 2.4.4 ₫

□ Succes Criterion 2.4.6 - Headings and Labels

Ensure to use descriptive headings and labels.

Descriptive headings are important to understand how the content is constructed. Blind users can navigate through headings using a screen reader.

Descriptive labels help users identify content. Voice control users speak the labels to perform actions.



Solution for success criterion 2.4.6 ♂

Nr	Screen	Problem	Screenshot
26	Containerlocaties	A heading/label is present, but this heading/label is too cryptic/unclear. Provide clear headings/labels. The screen reader spells the complete heading "CONTAINERLOCATIONS". On the screen "Kalender" this is not the case. This is a suggestion not an error.	OpenStreetMap CONTAINERLOCATIES, AMARINE AND

Nr	Screen	Problem	Screenshot
27	Instellingen	A heading/label is present, but this heading/label is too cryptic/unclear. Provide clear headings/labels. It is about the heading "setting.label.user_card_title".	INSTELLINGEN Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor het ledigen van uw container(s). Tijdstip herinnering Dag van tevoren 18:00 uur settings.label.user_card_title Voorletter(s) E-mail adres Telefoonnummer Versie: 2.0.0.9 settings.label.user_card_title

Succes Criterion 2.4.7 - Focus Visible

Ensure that elements focused by assistive technologies are clearly indicated. Focus is often shown by placing a box around the element. Make sure that the placement is correct and that the colour is clearly visible. For apps it is not possible to adjust the colour of the frame. However, it is possible to give elements a different background colour when they have focus.



Additional information about success criterion 2.4.7 ☑



Succes Criterion 2.5.1 - Pointer Gestures

Ensure an alternative is provided for all gesture-triggered actions. People with a motor disability cannot perform all gestures. For example, not everyone is able to move two fingers apart to zoom. Add an alternative, such as a button, to allow users to zoom in without gestures.



Additional information about success criterion 2.5.1 년



eals Succes Criterion 2.5.2 - Pointer Cancellation

Ensure it is possible to cancel touches. Buttons may only be activated with a click and not with a touch. This gives the user the option to cancel the touch.





🧷 Succes Criterion 2.5.3 - Label in Name

Ensure the technical name of elements contain the visual name. A button with the text 'Log in' must be able to be activated by voice control via this name. This is not possible if the technical name is different. For visually impaired people using a screen reader, it is also confusing when they hear a different name compared to what they see on the screen.



Additional information about success criterion 2.5.3 년



Succes Criterion 2.5.4 - Motion Actuation

Ensure an alternative is provided for motion-triggered actions and make it possible to disable them. For users with limited hand function, shaking is often not possible. Provide an alternative, such as a button. For users with spasms, the actions can be triggered inadvertently. Make it possible to disable motion-triggered actions.



Succes Criterion 3.1.1 - Language of Page

Ensure the language is set for all content. A screen reader reads all text that appears on the screen. The pronunciation of the words depends on the language that has been set. When the language is not set, or a wrong language is set, the pronunciation is unclear. A correctly set language also helps to display letters and to display subtitles.



Additional information about success criterion 3.1.1 년



⊚ Succes Criterion 3.2.1 - On Focus

Ensure it is predictable what happens when you move the focus. When users move their finger over a button, it should not be activated unexpectedly. If the last field of a form is filled in, it should not be sent unexpectedly. These types of actions should only be performed automatically if users are notified in advance. By making focus behavior predictable, you help people with a visual, cognitive or motor impairment.



Additional information about success criterion 3.2.1 2

Succes Criterion 3.2.2 - On Input

Ensure it is predictable what will happen when entering data. In case the focus moves automatically on correct input, this should be indicated in advance. Indicate if a new screen will be opened when submitting a form. Unexpected actions can confuse users with visual or cognitive impairments.



Solution for success criterion 3.2.2 ♂

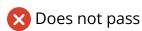
Nr	Screen	Problem	Screenshot
28	Onboarding: Postcode	When the user enters data in the input field, the data is sent automatically. Make sure the user is informed about this behavior in advance. After filling in the "Postcode number" or "Postcode letter" the focus automatically changes to the next input field. Do not change the focus to the next element automatically. This issue is also solved when the fields are combined.	jouw kaart Wordt Postcode (1234) (AB) Huisnummer (100) Controleren

Nr	Screen	Problem	Screenshot
29	Instellingen	When the user enters data in the input field, the data is sent automatically. Make sure the user is informed about this behavior in advance. After filling in the "Postcode number" or "Postcode letter" the focus automatically changes to the next input field. Do not change the focus to the next element automatically.	INSTELLINGEN Uw adresgegevens Postcode 1155



Succes Criterion 3.3.1 - Error Identification

Ensure a clear error message is shown when data has been entered incorrectly. It often happens that data is entered incorrectly. Clearly indicate which input is incorrect and explain why. It is important that error messages are also clear for user of assistive technologies. Ensure errors are also indicated in text to allow everyone to perceive them.

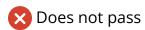


Solution for success criterion 3.3.1 ♂

Nr	Screen	Problem	Screenshot
30	Onboarding: Postcode	The error message does not describe what went wrong with the input. Provide error messages that indicate exactly which error has been made so that the user knows what to improve. After submitting invalid postal code, you receive an error message "Ongeldig of onbekend adres". This error message refers to 'adres' instead of 'postcode'	Jouw kaart Wordt Postcode Jerdos Let op! Ungeldig of onbekend adres OK Ongeldig of onbekend adres

Succes Criterion 3.3.2 - Labels or Instructions

Ensure clear instructions are provided in places users have to input data. Add a label to the input fields, for example 'First name'. Mark whether fields are required or optional. Indicate if data must be entered in a specified order. All users benefit from clear instructions. Clear instructions are indispensable for users with cognitive impairments.



Solution for success criterion 3.3.2 ♂

Nr	Screen	Problem	Screenshot
31	Onboarding: Postcode	A specific instruction is included in the placeholder text. This information disappears when the user starts entering data. Make sure the label/instruction remains visible at all times. It is about the text "(1234)" and "(AB). Consider merging the (1234) and (AB) fields to make the postal code a single field. When doing so, the "Postcode" label is sufficient.	jouw kaart wordt Postcode (1234) Huisnummer (100) Controleren

Succes Criterion 3.3.3 - Error Suggestion

Ensure suggestions are provided when data has been entered incorrectly. Users regularly make mistakes when entering data. Help users to fix these errors by providing suggestions. For example, when a date has been entered incorrectly, indicate in which order the day, month and year are expected.



Solution for success criterion 3.3.3 ♂

Nr	Screen	Problem	Screenshot
32	Onboarding: Postcode	No solution is provided to correct the error message. Tell the user what to do to correct the error. The error message does not indicate how to correct your address.	Jouw kaart Postcode Let op! Ongeldig of onbekend adres OK

Nr	Screen	Problem	Screenshot
33	Instellingen	No solution is provided to correct the error message. Tell the user what to do to correct the error. After submitting the data the error message "Ongeldig of onbekend adres" is not providing a solution. Also the error identification refers to "Adres" but the input was a postcode + number.	INSTELLINGEN Uw adresgegevens Postcode 1155 (AB) Hulsnummer 16 Controleren Let op! Ongeldig of onbekend adres OK Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor het ledigen van uw container(s). Tijdstip herinnering Dag van tevoren 19:30 uur Versie: 2.0.0.9

Succes Criterion 3.3.4 - Error Prevention (Legal, Financial, Data)

Ensure data is submitted intentionally. Allows users to undo, correct or confirm a submission. At least one of these options must be provided for submissions that cause a legal obligation, financial transaction, or loss of data. These options reduce the chance of unforeseen consequences.



Additional information about success criterion 3.3.4 년

</> Succes Criterion 4.1.1 - Parsing

Ensure the source code of the app does not contain any errors and does not use any deprecated functions. Assistive technologies may not behave as expected when code is not updated to modern standards. Adhere to the standards of the platforms which are supported. heck that the app works on all versions of the supported operating systems.



Additional information about success criterion 4.1.1 년



Succes Criterion 4.1.2 - Name, Role, Value

Ensure it is clear for users of assistive technologies what actions can be performed.

Set a name. The name is used for identification. By setting a name, assistive technologies such as voice control can perform targeted actions.

Set a role. With the role "button" it is clear that an action takes place upon activation. With the role "link" it is clear that you will be referred to another location. By setting a role, it is clear to users of assistive technologies what they can do.

Set a value. A check box should have the value "selected" or "not selected". With a volume control, the value can be "50%". By setting a value, this text value can be passed to assistive technologies.



Does not pass

Solution for success criterion 4.1.2 ☑

Nr	Screen	Problem	Screenshot
34	Afvalkalender	The accessible name of this button does not describe whether it is selected or not. Make sure that this information is read by the assistive technology. This occurs on all buttons in the menu. This issue occurs on all screens with the menu present.	Uw locatie Wegedoornpad 16 2691EW s-Gravenzande

Nr	Screen	Problem	Screenshot
35	Containerlocaties	The value/state of a button should be obvious without changing this state. Make sure the screen reader announces the value/state together with the button name. The screen reader announces "Gehandicapt Restafval Container". This is not the correct value. It should be "selected". This occurs also at other similar elements.	CONTAINERLOCATIES Container Container Container Container Container Container Container Container Container Container Container Container Container Container Container
36	Containerlocaties	This interactive element does not have a proper role. This element looks and behaves like a switch. Make sure the screen reader announces the correct role of this element. It is about the element "Restafval container" and occurs also at other similar elements.	CONTAINERLOCATIES Container Schoolevy Container Container Container Container Container Contain

Nr	Screen	Problem	Screenshot
37	Containerlocaties	This interactive element does not have a proper role. This element looks and behaves like a tab. Make sure the screen reader announces the correct role of this element. The element "zoeken op kaart" has the role "selectievakje" (checkbox). It is not possible to unselect the element by activating it. This is the way tabs work, therefore these elements should have the role tab.	© Q 3.483% ■ CONTAINERLOCATIES 209 161 249 283 301 Sint © nu 75 67 59 51 45 39 31 7 © OpenStreetMap
38	Instellingen	The toggle button has no name. Group the toggle button and its label so that they can be read as one element by the assistive technology. Group the label "Ontvang pushberichten" and the switch.	aangevinkt, Zoeken op kaart, Selectievakje INSTELLINGEN 1155 (AB) Huisnummer 16 Controleren Wegedoornpad 16 2691EW s-Gravenzande Ga Verder Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor
			Versie: 2.0.0.9

Nr	Screen	Problem	Screenshot
39	Instellingen	This interactive element does not have a proper role. This element looks and behaves like a button. Make sure the screen reader announces the correct role of this element. It is about the drop-down named "Dag van tevoren". Android does not have a drop-down role, therefore button is most similar.	INSTELLINGEN Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor het ledigen van uw container(s). Tijdstip herinnering Dag van tevoren 18:00 uur settings.label.user_card_title Voorletter(s) E-mail adres Telefoonnummer Versie: 2.0.0.9 Dag van tevoren 18:00 uur
40	Instellingen	The input field does not have an accessible name. When tapping this input field, the assistive technology does not read out which data must be entered here. Provide a correct name. It is about all the input fields at the bottom of the screen, these should have their own label.	INSTELLINGEN Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor het ledigen van uw container(s). Tijdstip herinnering Dag van tevoren 18:00 uur settings.label.user_card_title Voorletter(s) E-mail adres Telefoonnummer Versie: 2.0.0.9 Gevonden: tekst 'Voorletter(s)'



Succes Criterion 4.1.3 - Status Messages

Ensure that status messages are also passed to assistive technologies. A blind user cannot see new information appearing anywhere on the screen. By providing a status message, the screen reader can announce that new information is available.



X Does not pass

Solution for success criterion 4.1.3 ♂

Nr	Screen	Problem	Screenshot
Nr 41	Screen Containerlocaties	If the search button is used, the search results will appear with a notification stating an error. This message will not be read. Make sure this information is read aloud by an assistive technology It is about the error message: "Ongeldig of onbekend adres".	Screenshot 1031
			Atlantische Oceaan

4. Recommendations

To comply with the standard, the app needs to be improved on the following points:

Succes Criterion 1.3.1 - Info and Relationships

Ensure that the information and relationships on the screen are not only conveyed visually.

Information on the screen must be conveyed to assistive technologies. For example, make sure that headings are not only bold, but also marked as headings in the code.

Relationships on the screen must be usable with assistive technologies. Elements in a list must be navigable one by one. Elements in a table must be navigable by rows and columns.

- Solution for success criterion 1.3.1 ☑
- Definition of success criterion 1.3.1 ☑
- Explanation of success criterion 1.3.1 ☑

Succes Criterion 1.3.3 - Sensory Characteristics

Ensure instructions can be understood by everyone. Instructions that only use shape, size, location, orientation or sound are not understandable for everyone. For example, people who are blind cannot see shape. Combine multiple properties to allow everyone to understand the instructions.

- Solution for success criterion 1.3.3 ♂
- Definition of success criterion 1.3.3 ☑
- Explanation of success criterion 1.3.3 ♂



Succes Criterion 1.4.1 - Use of Color

Ensure colour isn't the only way information is conveyed. Information which is conveyed only by colour cannot be perceived by everyone. For example, also use shape to give instructions, e.g. reference a green checkmark or red cross. Inside a legend, use numbers in addition to colour, to allow people who are colour blind to find what they are looking for.

- Solution for success criterion 1.4.1 ☑
- Definition of success criterion 1.4.1 ☑

¬♥ Succes Criterion 1.4.3 - Contrast (Minimum)

Ensure that the contrast ratio between the text colour and background colour is at least 4.5:1. For bold and large text, a ratio of 3:1 is sufficient. By maintaining these ratios, visually impaired and colour blind users can usually read the text well. In addition, this makes an app easier for everyone to use, for example outside in the sun.

- Solution for success criterion 1.4.3 ☑
- Definition of success criterion 1.4.3 [™]
- Explanation of success criterion 1.4.3 ☑

△ Succes Criterion 1.4.4 - Resize text

Ensure that the text in your app supports resizing. Users specify their preferred font size in the system settings. Text in your app should resize according to the preferred font size. This is especially important for visually impaired users because otherwise they might not be able to read the text. Text should not be abbreviated with dots.

- Solution for success criterion 1.4.4 ☑
- Definition of success criterion 1.4.4 ☑
- Explanation of success criterion 1.4.4 ☑

- Succes Criterion 1.4.11 - Non-text Contrast

Ensure that the content on the screen has a contrast of at least 3:1 with the surrounding colour. Think of graphic elements such as icons, buttons and input fields. By keeping this ratio, visually impaired and colour blind users can distinguish the content well. In addition, this makes an app easier for everyone to use, for example outside in the sun.

- Solution for success criterion 1.4.11 ☑
- Definition of success criterion 1.4.11 ☑
- Explanation of success criterion 1.4.11 ☑

◯ Succes Criterion 2.1.1 - Keyboard

Ensure that all functionality in the app can be used with assistive technologies. People who are blind use the screen reader. People with a motor disability use switch control, voice control and/or the keyboard. These assistive technologies are built into the operating system.

- Solution for success criterion 2.1.1 ☑
- Definition of success criterion 2.1.1 ☑
- Explanation of success criterion 2.1.1 ☑

Succes Criterion 2.4.3 - Focus Order

Ensure assistive technologies use a logical focus order when navigating. The order of navigating a screen is usually from left to right, from top to bottom. Make sure assistive technologies use an equivalent focus order. The difference with success criterion 1.3.2 is that this only concerns the focus order.

- Solution for success criterion 2.4.3 ♂
- Definition of success criterion 2.4.3 ♂
- Explanation of success criterion 2.4.3 2

□ Succes Criterion 2.4.6 - Headings and Labels

Ensure to use descriptive headings and labels.

Descriptive headings are important to understand how the content is constructed. Blind users can navigate through headings using a screen reader.

Descriptive labels help users identify content. Voice control users speak the labels to perform actions.

- Solution for success criterion 2.4.6 ☑
- Definition of success criterion 2.4.6 ☑
- Explanation of success criterion 2.4.6 ☑

Succes Criterion 3.2.2 - On Input

Ensure it is predictable what will happen when entering data. In case the focus moves automatically on correct input, this should be indicated in advance. Indicate if a new screen will be opened when submitting a form. Unexpected actions can confuse users with visual or cognitive impairments.

- Solution for success criterion 3.2.2 ☑
- Definition of success criterion 3.2.2 ☑
- Explanation of success criterion 3.2.2 ☑

Succes Criterion 3.3.1 - Error Identification

Ensure a clear error message is shown when data has been entered incorrectly. It often happens that data is entered incorrectly. Clearly indicate which input is incorrect and explain why. It is important that error messages are also clear for user of assistive technologies. Ensure errors are also indicated in text to allow everyone to perceive them.

- Solution for success criterion 3.3.1 ☑
- Definition of success criterion 3.3.1 ☑

Succes Criterion 3.3.2 - Labels or Instructions

Ensure clear instructions are provided in places users have to input data. Add a label to the input fields, for example 'First name'. Mark whether fields are required or optional. Indicate if data must be entered in a specified order. All users benefit from clear instructions. Clear instructions are indispensable for users with cognitive impairments.

- Solution for success criterion 3.3.2 ☑
- Definition of success criterion 3.3.2 ☑
- Explanation of success criterion 3.3.2 ☑

Succes Criterion 3.3.3 - Error Suggestion

Ensure suggestions are provided when data has been entered incorrectly. Users regularly make mistakes when entering data. Help users to fix these errors by providing suggestions. For example, when a date has been entered incorrectly, indicate in which order the day, month and year are expected.

- Solution for success criterion 3.3.3 ☑
- Definition of success criterion 3.3.3 ☑
- Explanation of success criterion 3.3.3 ₺

Succes Criterion 4.1.2 - Name, Role, Value

Ensure it is clear for users of assistive technologies what actions can be performed.

Set a name. The name is used for identification. By setting a name, assistive technologies such as voice control can perform targeted actions.

Set a role. With the role "button" it is clear that an action takes place upon activation. With the role "link" it is clear that you will be referred to another location. By setting a role, it is clear to users of assistive technologies what they can do.

Set a value. A check box should have the value "selected" or "not selected". With a volume control, the value can be "50%". By setting a value, this text value can be passed to assistive technologies.

- Solution for success criterion 4.1.2 ☑
- Definition of success criterion 4.1.2 ☑
- Explanation of success criterion 4.1.2 ☑



Succes Criterion 4.1.3 - Status Messages

Ensure that status messages are also passed to assistive technologies. A blind user cannot see new information appearing anywhere on the screen. By providing a status message, the screen reader can announce that new information is available.

- Solution for success criterion 4.1.3 ☑
- Definition of success criterion 4.1.3 ☑
- Explanation of success criterion 4.1.3 ☑

Appendix A: Findings per screen

In total we made 41 findings on 8 screens.

Overview of the findings per screen

Nr	Screen	Amount of findings
1	Beginscherm	0
2	Onboarding: Postcode	5
3	Afvalkalender	6
4	Containerlocaties	17
5	Afvalwijzer	3
6	Informatie	0
7	Instellingen	9
8	Berichten	1
	Total	41

The following pages list all the findings per screen.

1. Beginscherm

We have not made any (new) findings this screen. This screen may contain recurring findings that have already been reported on other screens.

2. Onboarding: Postcode

We d 5 findings on this screen.

Nr	Success criterion	Problem	Screenshot
12	A <u>1.4.4 년</u> Resize text	(Parts of) text on this screen are no longer visible when the text is magnified to 200%. Make sure that all text remains available to users who use the app with an enlarged text. The button "Ga Verder" is not fully visible. Implement a scroll function to make all elements reachable.	Postcode chone wereld. 2691 EW Huisnummer 16 Controleren Wegedoornpad 16 2691EW s-Gravenzande
28	্ <u>3.2.2 ঐ</u> On Input	When the user enters data in the input field, the data is sent automatically. Make sure the user is informed about this behavior in advance. After filling in the "Postcode number" or "Postcode letter" the focus automatically changes to the next input field. Do not change the focus to the next element automatically. This issue is also solved when the fields are combined.	jouw kaart Wordt Postcode (1234) (AB) Huisnummer (100) Controleren

Nr	Success criterion	Problem	Screenshot
30	≜ 3.3.1 d Error Identification	The error message does not describe what went wrong with the input. Provide error messages that indicate exactly which error has been made so that the user knows what to improve. After submitting invalid postal code, you receive an error message "Ongeldig of onbekend adres". This error message refers to 'adres' instead of 'postcode'	jouw kaart Postcode 20 Let op! Ungeldig of onbekend adres OK Ongeldig of onbekend adres
31	™ 3.3.2 1 Labels or Instructions	A specific instruction is included in the placeholder text. This information disappears when the user starts entering data. Make sure the label/instruction remains visible at all times. It is about the text "(1234)" and "(AB). Consider merging the (1234) and (AB) fields to make the postal code a single field. When doing so, the "Postcode" label is sufficient.	jouw kaart Wordt Postcode (1234) (AB) Huisnummer (100) Controleren

Nr	Success criterion	Problem	Screenshot
32	∰ 3.3.3 ½ Error Suggestion	No solution is provided to correct the error message. Tell the user what to do to correct the error. The error message does not indicate how to correct your address.	jouw kaart Wordt Postcode Let op! Ungeldig of onbekend adres OK Ongeldig of onbekend adres

3. Afvalkalender

We d 6 findings on this screen.

Nr	Success criterion	Problem	Screenshot
1	≣ 1.3.1 🗹 Info and Relationships	On this screen, there are headings that are not marked-up as headings. Make sure that assistive technology recognizes headings as headings. Either mark the heading "Uw locatie" as heading or group "Uw location" with the adres below. This issue occurs on all screens with the menu present.	© Connected to ACCP Uw locatie Wegedoornpad 16 2691EW s-Gravenzande Estalender © Containerlocaties Welk afval waar? Ø Grofvuilmelding Pbd-zakken bestellen Berichten Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden. Uw locatie

Nr	Success criterion	Problem	Screenshot
9	⊤♥ <u>1.4.3 ㎡</u> Contrast (Minimum)	The text contrast ratio is too low. Provide a minimum contrast of 4.5:1. It is about the text "Uw location", the adres and the text "Deze app". The contrast is 3:1. This issue occurs on all screens with the menu present.	© Connected to ACCP Uw locatie Wegedoornpad 16 2691EW s-Gravenzands tafval 7-202 Kalender © Containerlocaties Welk afval waar? Ø Grofvuilmelding Pbd-zakken bestellen Berichten Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden. 2691EW s-Gravenzande
16	<u>2.1.1 ぱ</u> Keyboard	The screen/parts of the screen cannot be operated with an external keyboard. Make sure that all functionality is available using an external keyboard. With an external keyboard the menu cannot be reached with the screen reader. This issue occurs on all screens with the menu present. Other screens we did not test as we cannot reach them with the Keyboard.	Uw locatie Wegedoornpad 16 2691EW s-Gravenzande Kalender Containerlocaties Welk afval waar? Grofvuilmelding Pbd-zakken bestellen Berichten Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden.

Nr	Success criterion	Problem	Screenshot
19	Focus Order	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. The issue is about the "26"-button as this is the current day. The screen reader does not go to the element, but this element gives users insight in what the current day is. Make this element focusable to make it read by screen readers.	## Second Control of the Internal Control of the Inter
20	文 2.4.3 년 Focus Order	After landing on the screen, the focus of the screen reader does not go to the first element of the screen. Make sure that no elements are skipped. People with visual impairments then miss part of the screen. After opening the menu the focus of the screen reader should be placed at "uw location". This issue occurs on all screens with the menu present.	Uw locatie Wegedoornpad 16 2691EW s-Gravenzande E Kalender ○ Containerlocaties Welk afval waar? ○ Grofvuilmelding ○ Pbd-zakken bestellen ○ Berichten ○ Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden. Kalender, Knop

Nr	Success criterion	Problem	Screenshot
34	₩ 4.1.2 ½ Name, Role, Value	The accessible name of this button does not describe whether it is selected or not. Make sure that this information is read by the assistive technology. This occurs on all buttons in the menu. This issue occurs on all screens with the menu present.	© Connected to ACCP Uw locatie Wegedoornpad 16 2691EW s-Gravenzande Estate Kalender © Containerlocaties Welk afval waar? Ø Grofvuilmelding Pbd-zakken bestellen Berichten Instellingen Deze app is ontwikkeld en geproduceerd door Ximmio BV. Alle rechten voorbehouden. Kalender, Knop

4. Containerlocaties

We d 17 findings on this screen.

Nr	Success criterion	Problem	Screenshot
2	≣ 1.3.1 d Info and Relationships	The label is not programmatically associated with the related input field. Make sure that by selecting an input field, the screen reader reads the label. The label "Zoeken op adres of afvalgroep" does not get focus and is not connected to the input field.	CONTAINERLOCATIES CONTAINERLOCA

Nr	Success criterion	Problem	Screenshot
3	≣ 1.3.1 🗗 Info and Relationships	On this screen, there are headings that are not marked-up as headings. Make sure that assistive technology recognizes headings as headings. It is about the headings: "Zoeken op adres of afvalgroep" and "Containers in mijn buurt".	Zoeken op adres of afvalgroup Vuul hier een adres in Containers in mijn buurt PMD A,J, van Reststraat Glas A,J, van Reststraat Glas Anjerhof Glas Atlantische Oceaan Atlantische Oceaan PMD Atlantische Oceaan Glas
4	≣ 1.3.1 d Info and Relationships	The label is not connected to its element. This ensures that the element cannot be activated with voice control. Make sure the label is connected to the element. "verwijderen, knop" is not associated to the searchfield. The label should indicate what information will be deleted. "Zoekveld leegmaken, knop" would be a better label.	© CONTAINERLOCATIES D

Nr	Success criterion	Problem	Screenshot
7	≦ 1.3.3 d Sensory Characteristics	The legend of the map has reference to symbol/shape. This information is inaccessible to the assistive technology. Make sure that information is not dependent on the visual representation. The list is an alternative for the map. It is not possible to filter on a garbage type or to search for a nearby garbage point. The list is for that reason not an equal alternative. Make sure the functionality of the map are also available in the list. People with a keyboard interface are dependent on this.	Zoeken op adres of afvalgroup Vuul hier een adres in Containers in mijn buurt PMD A,J, van Reststraat Glas A,J, van Reststraat Glas Anjerhof Glas Atlantische Oceaan Atlantische Oceaan PMD Atlantische Oceaan Glas
8	Ø <u>1.4.1 d</u> Use of Color	Color is used to convey information. Make sure that another visual cue is used, for example, the shape of the lines. It is about the indicators where garbage containers are on the map. An exception applies to online maps and mapping services. Maps themselves do not have to be accessible. You can try to make it as accessible as possible.	TOON TO CONTAINERLOCATIES TO CONTAINERLOCAT

Nr	Success criterion	Problem	Screenshot
10	ក្ [†] 1.4.3 <u>៤</u> Contrast (Minimum)	The text contrast ratio is too low. Provide a minimum contrast of 4.5:1. It is about the placeholder text "Vuul hier". The contrast is 2,6:1. Suggestion: The label of the input field and the search field both have a spelling mistake - "VuUl" (extra U) and "AfvalgroUp" (U instead of E)	CONTAINERLOCATIES Zoeken op adres of afvalgroup Vuul hier een adres in Containers in mijn buurt Glas Bleijenburg PMD Bleijenburg Textiel Buizerdhorst Buizerdhorst Glas Buizerdhorst PMD Buizerdhorst
11	⊤ [∰] 1.4.3 🗗 Contrast (Minimum)	The text contrast ratio is too low. Provide a minimum contrast of 4.5:1. The contrast of the error message: "Ongeldig of onbekend adres" is 3.3:1.	CONTAINERLOCATIES CONTAINERLOCATIES Coeken op adres of afvalgroup Tri Congeldig of onbekend adres Anjerhof Glas Atlantische Oceaan Atlantische Oceaan PMD Atlantische Oceaan

Nr	Success criterion	Problem	Screenshot
13	AA <u>1.4.4 년</u> Resize text	(Parts of) text on this screen does not scale when the text is scaled to 200%. Make sure all text remains readable when magnified. It is about the indicators where garbage containers are on the map/ below the map.	© OpenStreetMap
15	心 1.4.11 년 Non-text Contrast	The contrast of interface elements on this screen is less than 3.0:1. Provide a minimum contrast of 3.0:1. The contrast of the "Glas container" yellow is 1,5:1. Also the elements for the other garbage types do not have sufficient contrast.	CONTAINERLOCATIES CONTAINERLOCATIES Alabatras Anaborras Anaborras Anaborras Genandicapt GFT container

Nr	Success criterion	Problem	Screenshot
17	흥 2.1.1 년 Keyboard	The screen/parts of the screen cannot be operated with an external keyboard. Make sure that all functionality is available using an external keyboard. The list is an alternative for the map. It is not possible to filter on a garbage type or to search for a nearby garbage point. The list is for that reason not an equal alternative. Make sure the functionality of the map are also available in the list. People with a keyboard interface are dependent on this.	E CONTAINERLOCATIES D
21	₹ 2.4.3 ₽ Focus Order	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. The focus order when using the screen reader in landscape mode is not correct. See the screenrecording: https://storage.ontoegankelijk.nl/attachments/1364/ Ximmio_2023-06-26-08-23-31.3gp	■ CONTAINERLOCATIES Kies welke afvalgroep u wilt zien (1) Q (2) QpenStreetMap

Nr	Success criterion	Problem	Screenshot
22	Focus Order	The screen reader's focus should be on the error message. The focus remains on the underlying screen. It is about the error message: "Ongeldig of onbekend adres".	CONTAINERLOCATIES CONTAINERLOCA
26	T 2.4.6 년 Headings and Labels	A heading/label is present, but this heading/label is too cryptic/unclear. Provide clear headings/labels. The screen reader spells the complete heading "CONTAINERLOCATIONS". On the screen "Kalender" this is not the case. This is a suggestion not an error.	CONTAINERLOCATIES Adapting Section 1995 Ada

Nr	Success criterion	Problem	Screenshot
35	₩ 4.1.2 ½ Name, Role, Value	The value/state of a button should be obvious without changing this state. Make sure the screen reader announces the value/state together with the button name. The screen reader announces "Gehandicapt Restafval Container". This is not the correct value. It should be "selected". This occurs also at other similar elements.	CONTAINERLOCATIES AMABOTAN ANABOTAN ANABOTA
36	₩ 4.1.2 년 Name, Role, Value	This interactive element does not have a proper role. This element looks and behaves like a switch. Make sure the screen reader announces the correct role of this element. It is about the element "Restafval container" and occurs also at other similar elements.	CONTAINERLOCATIES CONTAINERLOCATIES Asserting and the container of the c

Nr	Success criterion	Problem	Screenshot
37	₩ 4.1.2 ₺ Name, Role, Value	This interactive element does not have a proper role. This element looks and behaves like a tab. Make sure the screen reader announces the correct role of this element. The element "zoeken op kaart" has the role "selectievakje" (checkbox). It is not possible to unselect the element by activating it. This is the way tabs work, therefore these elements should have the role tab.	Total Same Container Locaties Container Locaties 209 161 159 249 283 301 Sint © nu 75 67 59 51 45 39 31 25 19 13 7 © OpenStreet Map aangevinkt, Zoeken op kaart, Selectievakje
41	∰ 4.1.3 d Status Messages	If the search button is used, the search results will appear with a notification stating an error. This message will not be read. Make sure this information is read aloud by an assistive technology It is about the error message: "Ongeldig of onbekend adres".	CONTAINERLOCATIES CONTAINERLOCATIES Coeken op adres of afvalgroup rr Congeldig of onbekend adres Anjerhof Glas Atlantische Oceaan Glas Atlantische Oceaan PMD Atlantische Oceaan Glas Tr, Bewerkingsvak

5. Afvalwijzer

We d 3 findings on this screen.

Nr	Success criterion	Problem	Screenshot
5	≣ 1.3.1 d Info and Relationships	On this screen, there are headings that are not marked-up as headings. Make sure that assistive technology recognizes headings as headings. It is about the bold headings: "Wat wel/ wat niet?" and "Wel" and "Niet" etc.	afvalverwerkingsbedrijf verwerkt het GFT-afval tot compost en energie. De vrijgekomen warmte uit de verwerkingsinstallatie wordt o.a. gebruikt voor de stadsverwarming. Wat wel/wat niet? WEL Etensresten, zoals: Schillen en resten van groente, fruit en aardappelen Brood- en kaaskorsten Resten van gekookt eten, vlees en vis Eierschalen Pinda- en notendoppen

Nr	Success criterion	Problem	Screenshot
18	<u>2.1.1 r</u> Keyboard	The screen/parts of the screen cannot be operated with an external keyboard. Make sure that all functionality is available using an external keyboard. This map does not have a function. By making it an image the map becomes decorative. An exception applies to online maps and mapping services. Maps themselves do not have to be accessible. You can try to make it as accessible as possible.	WELKAFVAL WAAR? Wel hulsvull wordt in onze gemeente aan huls openstreetMar Veel hulsvull wordt in onze gemeente aan huls openstreetMar Veel hulsvull wordt in onze gemeente aan huls openstreetMar Veel hulsvull wordt in onze gemeente aan huls openstreetMar Veel hulsvull wordt in onze gemeente aan huls openstreetMar Veel hulsvull wordt in onze gemeente aan huls openst. Q Zoek in scheidingswijzer GFT+e GFT+e (Groente-, Fruit En Tuinafval + Etensresten) gooit u in de groene kliko met bruine deksel, of (in geval van hoogbouw) in de ondergrondse verzamelcontainer. Een afvalverwerkingsbedrijf verwerkt het GFT-afval tot compost en energie. De vrijgekomen warmte uit de verwerkingsinstallatie wordt
23	Focus Order	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. The text "Veel huisvuil" is not in the accessibility tree and does not get focus when using the screen reader.	WELKAFVAL WAAR? WELKAFVAL WAAR? WELKAFVAL WAAR? Wel huisvuil wordt in onze gemeente aan huis opgehaald. Dit gebeurt op vaste dagen of op afspraak. Huisvuil kunt u ook ook zelf wegbrengen naar een milieustraat of naar een milieu-eiland. Zoek in scheidingswijzer GFT+e GFT+e (Groente-, Fruit En Tuinafval + Etensresten) gooit u in de groene kliko met bruine deksel, of (in geval van hoogbouw) in de ondergrondse verzamelcontainer. Een afvalverwerkingsbedrijf verwerkt het GFT-afval tot compost en energie. De vrijgekomen warmte uit de verwerkingsinstallatie wordt

6. Informatie

We have not made any (new) findings this screen. This screen may contain recurring findings that have already been reported on other screens.

7. Instellingen

We d 9 findings on this screen.

Nr	Success criterion	Problem	Screenshot
6	≣ 1.3.1 d Info and Relationships	On this screen, there are headings that are not marked-up as headings. Make sure that assistive technology recognizes headings as headings. It is about the headings "Uw adresgegevens", "Berichten" and other similar headings.	INSTELLINGEN Uw adresgegevens Postcode 1155 (AB) Huisnummer 16 Controleren Wegedoornpad 16 2691EW s-Gravenzande Ga Verder Berichten Ontvang push-berichten bijvoorbeeld in geval van een Colomitoit Versie: 2.0.0.9 Uw adresgegevens
14	₄A <u>1.4.4 ぱ</u> Resize text	(Parts of) text on this screen are no longer visible when the text is magnified to 200%. Make sure that all text remains available to users who use the app with an enlarged text. Suggestion: In landscape modus there is very limited space for the content. We suggest to place the version number inside the scroll view, instead of making it overlay other content.	INSTELLINGEN

Nr	Success criterion	Problem	Screenshot
25	文 2.4.3 년 Focus Order	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. After the heading the focus goes tot the version number. Visually this element is at the bottom of the screen. The focus should first go to earlier elements.	INSTELLINGEN Uw adresgegevens Postcode 1155 (AB) Huisnummer 16 Controleren Wegedoornpad 16 2691EW s-Gravenzande Ga Verder Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamitait Versie: 2.0.0.9
27	国 <u>2.4.6 d</u> Headings and Labels	A heading/label is present, but this heading/label is too cryptic/unclear. Provide clear headings/labels. It is about the heading "setting.label.user_card_title".	INSTELLINGEN Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor het ledigen van uw container(s). Tijdstip herinnering Dag van tevoren 18:00 uur settings.label.user_card_title Voorletter(s) E-mail adres Telefoonnummer Versie: 2.0.0.9 settings.label.user_card_title

Nr	Success criterion	Problem	Screenshot
29	員 3.2.2 ₫ On Input	When the user enters data in the input field, the data is sent automatically. Make sure the user is informed about this behavior in advance. After filling in the "Postcode number" or "Postcode letter" the focus automatically changes to the next input field. Do not change the focus to the next element automatically.	INSTELLINGEN Uw adresgegevens Postcode 1155
33	∰ 3.3.3 ½ Error Suggestion	No solution is provided to correct the error message. Tell the user what to do to correct the error. After submitting the data the error message "Ongeldig of onbekend adres" is not providing a solution. Also the error identification refers to "Adres" but the input was a postcode + number.	INSTELLINGEN Uw adresgegevens Postcode 1155 (AB) Huisnummer 16 Controleren Let op! Ongeldig of onbekend adres OK Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor het ledigen van uw container(s). Tijdstip herinnering Dag van tevoren 19:30 uur Versie: 2.0.0.9

Nr	Success criterion	Problem	Screenshot
38	₩ 4.1.2 12 Name, Role, Value	The toggle button has no name. Group the toggle button and its label so that they can be read as one element by the assistive technology. Group the label "Ontvang pushberichten" and the switch.	INSTELLINGEN 1155 (AB) Huisnummer 16 Controleren Wegedoornpad 16 2691EW s-Gravenzande Ga Verder Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor Versie: 2.0.0.9 aan, Schakelaar
39	₩ 4.1.2 년 Name, Role, Value	This interactive element does not have a proper role. This element looks and behaves like a button. Make sure the screen reader announces the correct role of this element. It is about the drop-down named "Dag van tevoren". Android does not have a drop-down role, therefore button is most similar.	INSTELLINGEN Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor het ledigen van uw container(s). Tijdstip herinnering Dag van tevoren 18:00 uur settings.label.user_card_title Voorletter(s) E-mail adres Telefoonnummer Versie: 2.0.0.9 Dag van tevoren 18:00 uur

Nr	Success criterion	Problem	Screenshot
40	₩ 4.1.2 년 Name, Role, Value	The input field does not have an accessible name. When tapping this input field, the assistive technology does not read out which data must be entered here. Provide a correct name. It is about all the input fields at the bottom of the screen, these should have their own label.	INSTELLINGEN Berichten Ontvang push-berichten bijvoorbeeld in geval van een calamiteit. Herinneringen Ontvang herinneringen voor het ledigen van uw container(s). Tijdstip herinnering Dag van tevoren 18:00 uur settings.label.user_card_title Voorletter(s) E-mail adres Telefoonnummer Versie: 2.0.0.9 Gevonden: tekst 'Voorletter(s)'

8. Berichten

We d 1 findings on this screen.

Nr	Success criterion	Problem	Screenshot
24	2.4.3 d Focus Order	The focus order of the elements on the screen is not the same as the visual order of the elements. Ensure that the screen is read by assistive technology in the same order as the visual order of elements. The focus goes directly to "Je hebt geen bericht" after navigating from the header "Berichten". Only after the focus of the screen reader goes to the paragraph.	BERICHTEN Op deze pagina houden we u op de hoogte van wijzigingen in de dienstverlening, bijzondere omstandigheden en andere wetenswaardigheden met betrekking tot de inzameling van afval. Je hebt geen bericht!