

VPAT Accessibility Conformance Report

(Based on ITI VPAT®)

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| Name of Product | Pure Portal |
| Date Last Updated | August 4, 2023 |
| Completed by | Jay Nemchik (Digital Accessibility Team, Dayton) |
| Applicable Standards/Guidelines | This document rates Pure Portal according to the W3C WCAG 2.1 A and AA requirements. |
| Contact for More Information | Ted Gies Principal User Experience Specialist ted.gies@elsevier.com accessibility@elsevier.com |
| Testing Tools and Methods | Hands-on keyboard operation Firebug/Code inspection Firefox Web Developer Toolbar (removing style sheets) JAWS 18 on Mozilla Firefox 63 and MS IE 11 on Windows 10 NVDA screen reader v2019.2.1 Wave Extension Color Contrast Analyzer W3C WAI Pages Elsevier Accessibility Checklist: http://romeo.elsevier.com/accessibility_checklist/ |
| Document Sections | The review document below includes all WCAG 2.1 A and AA checkpoints and is organized into 6 logical sections: <ul style="list-style-type: none">• Visuals• Keyboard• Headings and Structure• Labeling• Multimedia• Usability |
| Pages Covered | Homepage, Find Profiles, Find Research Units, Profile Details, Research Unit Details, Article Details, Advanced Search |
| Terms | <ul style="list-style-type: none">• Supports: The functionality of the product has at least one method that meets the criteria without known defects or meets with equivalent facilitation.• Partially supports: Some functionality of the product does not meet the criteria.• Does not support: Majority of functionality of the product does not meet the criteria.• Supports (N/A): According to W3C on conformance, "If there is no content to which a success criterion applies, the success criterion is satisfied." |
| Notes/Terminology | "AT" stands for Assistive Technology such as screen readers, voice input, etc. |

| WCAG 2.1 Success Criterion | Level | Evaluation |
|--|-------|--------------------|
| 1.1.1 Non-text Content | A | Supports |
| 1.2.1 Audio-only and Video-only (Prerecorded) | A | Supports (N/A) |
| 1.2.2 Captions (Prerecorded) | A | Supports (N/A) |
| 1.2.3 Audio Description or Full Text Alternative | A | Supports (N/A) |
| 1.2.4 Captions (Live) | AA | Supports (N/A) |
| 1.2.5 Audio Description | AA | Supports (N/A) |
| 1.3.1 Info and Relationships | A | Supports |
| 1.3.2 Meaningful Sequence | A | Partially supports |
| 1.3.3 Sensory Characteristics | A | Supports |
| 1.3.4 Orientation (2.1) | AA | Supports |
| 1.3.5 Identify Input Purpose (2.1) | AA | Supports (N/A) |
| 1.4.1 Use of Color | A | Supports |
| 1.4.2 Audio Control | A | Supports (N/A) |
| 1.4.3 Contrast (Minimum) | AA | Partially supports |
| 1.4.4 Resize text | AA | Supports |
| 1.4.5 Images of Text | AA | Partially supports |
| 1.4.10 Reflow (2.1) | AA | Supports |
| 1.4.11 Non-Text Contrast (2.1) | AA | Supports |
| 1.4.12 Text Spacing (2.1) | AA | Supports |
| 1.4.13 Content on Hover or Focus (2.1) | AA | Partially supports |
| 2.1.1 Keyboard | A | Partially supports |
| 2.1.2 No Keyboard Trap | A | Supports |
| 2.1.4 Character Key Shortcuts (2.1) | A | Supports (N/A) |
| 2.2.1 Timing Adjustable | A | Supports (N/A) |
| 2.2.2 Pause, Stop, Hide | A | Partially supports |
| 2.3.1 Three Flashes or Below Threshold | A | Supports (N/A) |
| 2.4.1 Bypass Blocks | A | Supports |
| 2.4.2 Page Titled | A | Supports |
| 2.4.3 Focus Order | A | Partially supports |
| 2.4.4 Link Purpose (In Context) | A | Supports |
| 2.4.5 Multiple Ways | AA | Supports |
| 2.4.6 Headings and Labels | AA | Supports |
| 2.4.7 Focus Visible | AA | Supports |
| 2.5.1 Pointer Gestures (2.1) | A | Supports (N/A) |
| 2.5.2 Pointer Cancellation (2.1) | A | Supports |
| 2.5.3 Label in Name (2.1) | A | Supports |
| 2.5.4 Motion Actuation (2.1) | A | Supports (N/A) |
| 3.1.1 Language of Page | A | Supports |
| 3.1.2 Language of Parts | AA | Partially Supports |
| 3.2.1 On Focus | A | Supports |

| WCAG 2.1 Success Criterion | Level | Evaluation |
|---|-------|--------------------|
| 3.2.2 On Input | A | Supports |
| 3.2.3 Consistent Navigation | AA | Supports |
| 3.2.4 Consistent Identification | AA | Supports |
| 3.3.1 Error Identification | A | Supports (N/A) |
| 3.3.2 Labels or Instructions | A | Supports |
| 3.3.3 Error Suggestion | AA | Supports (N/A) |
| 3.3.4 Error Prevention (Legal, Financial, Data) | AA | Supports (N/A) |
| 4.1.1 Parsing | A | Partially supports |
| 4.1.2 Name, Role, Value | A | Partially supports |
| 4.1.3 Status Messages (2.1) | AA | Supports (N/A) |

| Visuals | | |
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| WCAG 2.1 Checkpoint | Supporting Features | Remarks |
| 1.1.1: Non-Text Content (A) Provide text alternatives for non-text content (e.g. images) | Supports | Images, icons, and graphs include text equivalents. |
| 1.3.3: Sensory Characteristics (A) Do not rely on sensory characteristics of components such as shape, size, visual location, orientation, or sound | Supports | Content does not rely on sensory characteristics. |
| 1.4.1: Use of Color (A) Color is not used as the only visual means of conveying info | Supports | Color is not used as the only means of conveying information content. |
| 1.4.3: Color Contrast (Minimum) (AA) Text has enough contrast with the background (4.5:1 for small text and 3:1 for large text) | Partially supports | <p>Most text has enough contrast with its corresponding background.</p> <p>Note: University Branding will change the link colors which can cause color contrast violations.</p> <p>Exceptions: Homepage: Many of the UN Sustainable Development Goals white text does not have enough contrast with the yellow/green/light blue/orange backgrounds, usually under 3.0:1 ratio required for text within images.</p> <p>Profile Details, Research Unit Details, Article Details: The PlumX orange, green, and purple text does not have enough contrast.</p> |

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| | | Profile Details: The page can contain the UN Sustainable Development Goals, some of which do not have enough contrast for text within images. |
| 1.4.4: Resize Text (AA) Text can be enlarged up to 200% without loss of functionality. | Supports | Text can be enlarged to 200% without loss of functionality. |
| 1.4.5: Images of Text (AA) Text is used rather than images of text, except where the presentation of text is essential, such as logos | Partially supports | No images of text are used other than for Logos or essential presentation in most areas. Exceptions: Homepage: The UN Sustainable Development Goals all use images of text for the menu buttons. Profile Details: The UN Sustainable Development Goals all use images of text. |
| 1.4.10 Reflow (AA) (2.1) Content can be presented without loss of information or functionality, and without requiring scrolling in two dimensions for: Vertical scrolling content at a width equivalent to 320 CSS pixels; Horizontal scrolling content at a height equivalent to 256 CSS pixels. | Supports | All content is displayed in one scrolling direction for all content. |
| 1.4.11 Non-Text Contrast (AA) (2.1) User interact components and graphical objects have a contrast ratio of at least 3:1 against adjacent color(s). | Supports | UI components and graphical objects pass the minimum contrast ratio of 3:1. Note: University Branding will change certain elements' colors, such as slideshow arrows, which can cause color contrast violations. |
| 1.4.12 Text Spacing (AA) (2.1) In content implemented using markup languages that support the following | Supports | All content can be adjusted to the minimum text spacing requirements without loss of readability or functionality. |

| <p>text style properties, no loss of content or functionality occurs by setting all the following and by changing no other style property:</p> <p>Line height (line spacing) to at least 1.5 times the font size; Spacing following paragraphs to at least 2 times the font size; Letter spacing (tracking) to at least 0.12 times the font size; Word spacing to at least 0.16 times the font size.</p> | | |
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| <p>1.4.13 Content on Hover or Focus (AA) (2.1) Where receiving and then removing pointer hover or keyboard focus triggers additional content to become visible and then hidden, the following are true:</p> <ul style="list-style-type: none"> • Dismissable • Hoverable • Persistent | Partially supports | <p>There are tooltips that appear on hover and focus that are not hoverable.</p> <p>Exceptions: Profile Details, Article Details: The canvas graphs have tooltips that appear on mouse hover that cannot be hovered without disappearing.</p> <p>Advanced Search: The information tooltips are not dismissable.</p> |
| <p>2.3.1: Three Flashes or Below Threshold (A) No more than three flashes in a 1-second period, or the flashes are below the defined thresholds</p> | Supports (N/A) | No flashing content exists. |
| Keyboard | | |
| WCAG 2.1 Checkpoint | Supporting Features | Remarks |
| <p>1.3.2: Meaningful Sequence (A) The correct reading sequence can be programmatically</p> | Partially supports | <p>The correct reading sequence is logical with the DOM order matching the visual order. A few irregularities occur with how screen readers read out text.</p> <p>Exceptions:</p> |

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| determined | | Profile Details, Research Unit Details, Article Details: The popups for the Plum and Altmetric images cannot be reached and read by screen readers. |
| 2.1.1: Keyboard (A) All functionality is available from a keyboard, except for tasks such as drawing | Partially supports | Most content is keyboard operable. Exceptions: Profile Details, Research Unit Details, Article Details: The interactive portions of the canvas graphs cannot be reached by keyboard. The popups for the Plum and Altmetric images cannot be activated by keyboard. Profile Details: The email link cannot be reached by keyboard. |
| 2.1.2: No Keyboard Trap (A) The user can use the keyboard to move through page elements and is not trapped on a particular element | Supports | No keyboard traps exist on any page. |
| 2.1.4 Character Key Shortcuts (A) (2.1) If a keyboard shortcut is implemented in content using only letter (including upper- and lower-case letters), punctuation, number, or symbol characters, then at least one of the following is true: <ul style="list-style-type: none"> • Turn off • Remap • Active only on focus | Supports (N/A) | No keyboard shortcuts are implemented on the site. |
| 2.4.3: Focus Order (A) Users can tab through the elements of a page in a logical order | Partially supports | Tab order and focus management is logical on the site in most areas. Exceptions: Homepage: When closing the dropdown menus for the concept badges, focus should return to the activating button. |
| 2.4.7: Focus Visible (AA) The page element with the current keyboard focus has a visible focus indicator | Supports | All elements use a good and contrasting visible focus. |
| 3.2.1: On Focus (A) | Supports | Focusable elements do not cause unexpected actions when receiving focus. |

| When a UI component receives focus, this does not trigger unexpected actions. | | |
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| Headers and Structure | | |
| WCAG 2.1 Checkpoint | Supporting Features | Remarks |
| 1.3.1: Information and Relationships (A) Info, structure, and relationships can be programmatically determined | Supports | Good use of headings to appropriately structure content. HTML5 tags and roles are used in several areas to create landmarks. |
| 2.4.1: Bypass Blocks (A) Users can bypass repeated blocks of content. | Supports | Headings exist and a visible "Skip" links exists, which allow users using Assistive Technology to jump to the different areas of content quickly. |
| 2.4.6: Headings and Labels (AA) Headings and labels are clear and consistent. | Supports | Headings and labels used are clear and descriptive. |
| 3.1.1: Language of Page (A) The language of the page is specified | Supports | The language is defined as lang="en". |
| 3.1.2: Language of Parts (AA) Specify the language of text passages that are in a different language than the default language of the page. | Partially supports | There can be instances of various research output (publications, activities, etc.) that can be in a different language than the page default, but they are not marked with a lang attribute. |
| 4.1.1: Parsing (A) Use valid, error-free HTML | Partially supports | HTML and CSS passes concerning these 4 specific criteria: (i) elements have complete start and end tags, (ii) elements are nested according to their specifications (iii) elements do not contain duplicate attributes (iv) any IDs are unique, except where the specifications allow these features. Profile Details: The copyright tooltips all share the same ID. |
| Labeling | | |
| WCAG 2.1 Checkpoint | Supporting Features | Remarks |
| 1.3.5 Identify Input Purpose (AA) (2.1) The purpose of each input field collecting | Supports (N/A) | There are no fields for which the autocomplete attribute applies. |

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| <p>information about the user can be programmatically determined when: The input field serves a purpose identified in the Input Purposes for User Interface Components section; and the content is implemented using technologies with support for identifying the expected meaning for form input data.</p> | | |
| <p>2.4.2: Page Titled (A) The page has a title describing its topic or purpose</p> | Supports | Titles change dynamically based on the current page and are descriptive. |
| <p>2.4.4: Link Purpose (In Context) (A) The purpose of each link can be determined from the link text or surrounding context.</p> | Supports | Links used have an identifiable purpose from the link text or surrounding context. |
| <p>2.5.3 Label in Name (A) (2.1) For user interface components with labels that include text or images of text, the name contains the text that is presented visually.</p> | Supports | Most user interface components have the visible label as the first part of the programmatic label. |
| <p>3.2.4: Consistent Identification (AA) UI components used across the web site are identified consistently on every page.</p> | Supports | UI components are consistent across the site in terms of HTML implementation and labelling. |
| <p>3.3.1: Error Identification (A) Input errors are clearly marked and described to the user.</p> | Supports (N/A) | No input errors are possible with the search implementation. |
| <p>3.3.2: Labels and Instructions (A) Items requiring user input are clearly</p> | Supports | All input areas have clear labels which are programmatically assigned. |

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| labeled or have clear instructions. | | |
| 3.3.3: Error Suggestion (AA) When the user makes an input error, give suggestions for valid input. | Supports (N/A) | There are no forms on the site that would give error suggestions. |
| 4.1.2: Name, Role, Value (A) For all UI components, the name, value, and role can be programmatically determined. | Partially supports | UI components communicate their state programmatically in most cases. Exceptions: Homepage: The image slideshow has incorrect ARIA markup that would cause confusion. Profile Details: The contact modal should have aria-modal="true" and a proper label. |
| 4.1.3 Status Messages (AA) (2.1) In content implemented using markup languages, status messages can be programmatically determined through role or properties such that they can be presented to the user by assistive technologies without receiving focus. | Supports (N/A) | There are currently no status messages used on the site. |

Multimedia

| WCAG 2.1 Checkpoint | Supporting Features | Remarks |
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| 1.2.1: Audio-only or Video-only (Prerecorded) (A) Provide alternatives for pre-recorded audio-only or video-only content. | Supports (N/A) | No pre-recorded audio-only or video-only content was reviewed. |
| 1.2.2: Captions (Prerecorded) (A) Provide captions for pre-recorded audio | Supports (N/A) | There is no pre-recorded audio on the site. |
| 1.2.3: Audio Description or Media Alternative (Prerecorded) (A) | Supports (N/A) | There is no pre-recorded synchronized audio/video on the site. |

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| Provide alternatives for pre-recorded synchronized audio/video | | |
| 1.2.4: Captions (Live) (AA) Provide captions for live audio in synchronized audio/video. | Supports (N/A) | There is no live audio in synchronized audio/video. |
| 1.2.5: Audio Description (Prerecorded) (AA) Provide an audio description of pre-recorded video. | Supports (N/A) | There is no pre-recorded video on the site. |
| 1.4.2: Audio Control (A) Audio can be paused and stopped, or the audio volume can be changed. | Supports (N/A) | There is no audio content on the site. |
| 2.2.2: Pause, Stop, Hide (A) Users can stop, pause, or hide moving, blinking, scrolling, or auto-updating information. | Partially supports | There is no moving, blinking, or scrolling content on most pages. Exceptions: Homepage: There is an auto-rotating image slideshow that cannot be paused. |

Usability

| WCAG 2.1 Checkpoint | Supporting Features | Remarks |
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| 2.2.1: Timing Adjustable (A) Users are warned of time limits shorter than 20 hours and time limits can be turned off or extended | Supports (N/A) | There is no time limit for the site. |
| 2.4.5: Multiple Ways (AA) More than one way is available to navigate to other web pages. | Supports | Users can reach all pages in the system using the global navigation. Content pages can be reached through the global nav or homepage. |
| 3.2.2: On Input (A) Changing the setting of a checkbox, radio button, or other UI component does not | Supports | User inputs do not cause unexpected actions. |

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| trigger unexpected changes in context. | | |
| 3.2.3: Consistent Navigation (AA) Navigation menus are in the same location and order on every web page. | Supports | Navigation menus are consistently in the same place and in same order. |
| 3.3.4: Error Prevention (Legal, Financial, Data) (AA) For web pages with legal or financial commitments, input can be reviewed and corrected before final submission, and submissions can be reverted. | Supports (N/A) | No data submissions on the site require legal or financial commitments. No data submissions allow for a users' profile to be deleted. |

Mobile User Experience

| WCAG 2.1 Checkpoint | Supporting Features | Remarks |
|---|---------------------|---|
| 1.3.4 Orientation (AA) (2.1) Content does not restrict its view and operation to a single display orientation, such as portrait or landscape, unless a specific display orientation is essential. | Supports | Content is not restricted to a single display orientation. |
| 2.5.1 Pointer Gestures (A) (2.1) All functionality that uses multipoint or path-based gestures for operation can be operated with a single pointer without a path-based gesture, unless a multipoint or path-based gesture is essential. | Supports (N/A) | There is no content on the site that requires multipoint or path-based gestures. |
| 2.5.2 Pointer Cancellation (A) (2.1) | Supports | All content that can be operated with a single pointer can be undone or is performed on the up-event. |

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| <p>For functionality that can be operated using a single pointer, at least one of the following is true:</p> <ul style="list-style-type: none"> • No Down-Event • Abort or Undo • Up Reversal • Essential | | |
| <p>2.5.4 Motion Actuation (A) (2.1) Functionality that can be operated by device motion or user motion can also be operated by user interface components and responding to the motion can be disabled to prevent accidental actuation, except when:</p> <ul style="list-style-type: none"> • Supported Interface • Essential | Supports (N/A) | There is no content on the site that is activated by motion or actuation. |