

# Data Preparation and Governance

## Keys to Efficiently Reach Accessibility Goals

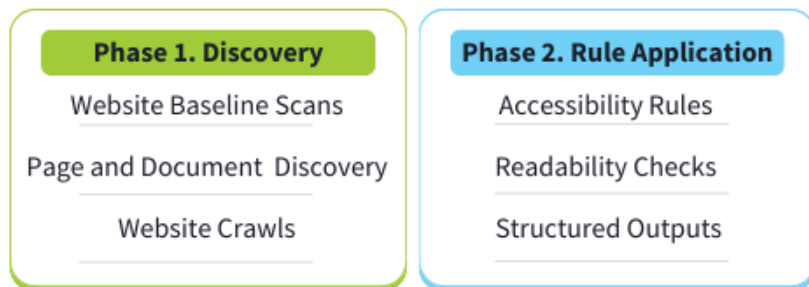
### Structured Data and Automated Governance Accelerate Accessibility Compliance

For resource-constrained teams, the prospect of orderly, usable, and trusted data reduces manual effort by establishing an accurate digital property inventory and an initial baseline. Then, once these data are indexed, accessibility and CX teams can efficiently prioritize higher-risk remediation, archive or remove excluded web properties, and assign remediation to role-based team members.

With a solid baseline, the automated website crawls should be customized with layered rules before applying accessibility, readability, broken link detection, and other web health factors.

### Best Practices for Improved Accessibility Testing and Reporting Accuracy

For enterprise performance, use multi-threaded, two-phase site crawls with timed pacing to avoid appearing to be a Denial-of-Service (DoS) issue (and to obtain whitelist approvals).



After the first comprehensive web crawl, the second pass applies rules, producing high-accuracy, granular, actionable datasets that power role-based dashboards for technical staff and executives. Alerts can be sent via email from the service console for each phase completion.

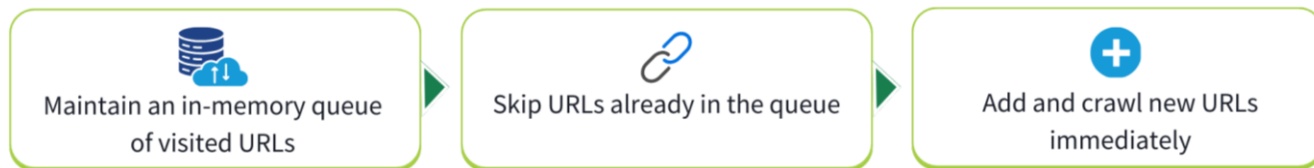
Subsequently, all other microservices will be based on an accurate digital asset inventory. This enables other functions and reporting tools to be operationalized more effectively.

#### Sample microservices are below:

Accessibility & CX Functions	Optimization Tools
<ul style="list-style-type: none"> <li>✓ HTML &amp; PDF barrier detection</li> <li>✓ Plain Language scoring</li> <li>✓ PII detection</li> <li>✓ Downtime alerts</li> </ul>	<ul style="list-style-type: none"> <li>✓ Sitemap visualization</li> <li>✓ SEO analysis, Google Analytics</li> <li>✓ AEO capabilities</li> <li>✓ Multi-Level enterprise reporting</li> </ul>

We suggest that during the digital crawls, metadata from page meta tags should also be collected, which can help determine which pages should be archived and/or excluded from remediation compliance.

### Rules Applied During the Web Crawl



*These steps prevent duplicate crawling, even when pages appear in multiple subsections.*

### Rules Applied After the Web Crawl

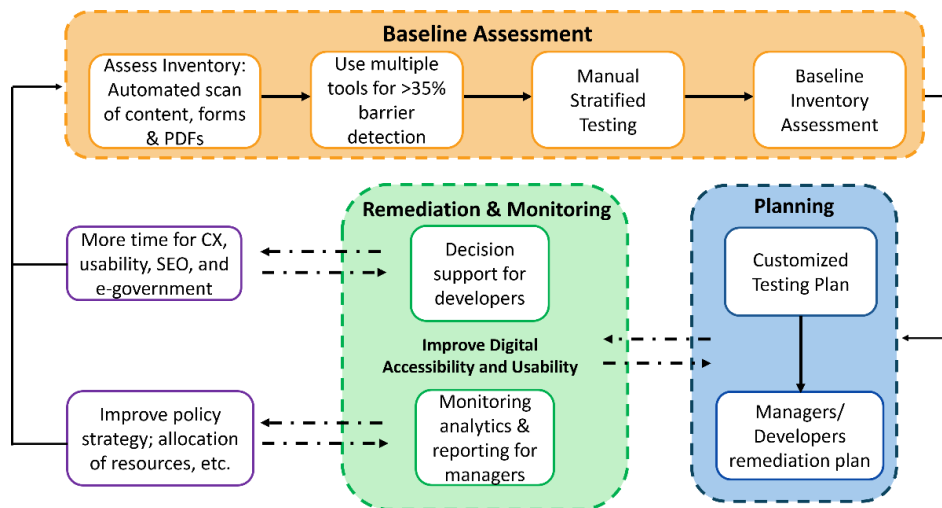


### Additional Normalization Rules

To minimize duplication, there are additional helpful rules to apply during web crawls. These include removing extra periods and slashes and removing index pages. The important takeaway is that each web property is different, and it is helpful to have a flexible tool that customizes these rules, which is key to governance and data preparation.

### Accessibility Lifecycle – Automated + Manual Testing

It is commonly known that automated testing does not capture all website and PDF barriers. However, testing should be a continuous improvement loop that begins with upfront design. The following graphic is an accessibility lifecycle approach for accessibility and CX teams:



This hybrid automation + manual testing approach starts with a baseline inventory of webpages, PDFs, and hyperlinks. The iAccessible platform blends automated scanning with embedded manual review workflows to identify WCAG, Section 508, and ADA issues, including alt-text gaps, color contrast errors, navigation barriers, and PDF accessibility violations.

### Outcomes

✓ Significant time savings from reduced manual review	✓ Higher-quality, actionable data
✓ Optimized staff resources	✓ Reduced ICT barriers through structured detection, tagging, and enterprise-level insight

### About iAccessible and Revelo Software

iAccessible is a Revelo Software product that is powered by WebAIM WAVE for WCAG detection. It is a total web health platform that provides automated website and PDF testing across accessibility, readability, usability, search optimization, and generative AI readiness. iAccessible has a robust enterprise site map visualizer and optional AI assistants to help quickly glean insights.

Through a centralized view, iAccessible delivers continuous monitoring, clear reporting, and actionable insights that support both technical teams and non-technical stakeholders.

For total digital accessibility remediation, iAccessible’s e-508 microservice has AI options for PDF remediation and an Accessibility Assistant bot to guide users in website and PDF remediation using widely accepted standards.

Revelo Software provides the underlying platform framework, enabling scalable data management, centralized governance, and secure integrations.

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*iAccessible is a Revelo Software product.  
See our Accessibility Ecosystem below:*

