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Stronger evidence, better decisions, improved health and welfare

The leading cause of death for those who last used HACC was coronary heart disease

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Australia's welfare 2017
Australia's welfare 2017 is the 13th biennial welfare report of... >

Australia's health 2016
Australia's health 2016 is the AIHW's 15th biennial report on... >

AIHW

Cause of death patterns and people's use of aged care: a Pathways in Aged Care analysis of 2012-14 death statistics >

HEALTHCARE AND STATISTICS

The leading health and welfare statistics agency in Australia

Background

The AIHW improves the delivery of health and welfare for Australians by providing high-quality reports and other information products, on key health and welfare issues in Australia. AIHW works toward providing stronger evidence (data and information) for better decisions and improved health and welfare.

Goals

The AIHW needed a user-centred website refresh to allow them to display their extensive collection of reports and statistics.

Challenges

- Display a large number of reports and statistics in easily understandable categories
- Fit in with existing business processes
- Responsive design across a range of device sizes
- WCAG 2.0 AA accessibility compliance

Solution

Kentico was leveraged and integrated with custom solutions in order to fit the specific client preferences:

Custom Content Staging Module:

The client required a content authoring environment that was separate from the production environment. No ad-hoc work would be done on the production site, so a mechanism was needed to promote content changes through the system. The solution was to create an on-demand, multi-document content promotion tool which leveraged the Staging Module API, Kentico REST service, Media API, and internal document type objects.

Custom Search

The reports themselves contained many sub-pages but required those sub-pages to be searched for top-level information about the report such as topic, reference dates, and tags. Zerosseven extended the smart search by adding the parent report fields to each of those nodes, and in some cases, modified the search content based on the type of node. Customising the search index in this way allowed a huge amount of complexity and configuration to be made to the smart search, all while leveraging Kentico's existing Lucene and Indexing features.

"Our goal was to develop a new website with a fresh design, clear navigation, and emphasis on user experience. Thanks to the robust infrastructure of the Kentico platform, we managed to achieve this goal, and match AIHW's vision"



Brendan O'Keeffe
Senior Project Co-ordinator
Zerosseven

Multiselectors and Customising Form Controls

There are many places across the site that require multiple selected content items. Zeroseven created a large number of new 'multiselector' controls that allowed content editors to pick multiple items in a consistent way.

They also cloned and customised a number of existing Kentico controls to provide better configuration specific to AIHW, such as limiting the locations where media and other content items could be selected from.

Events

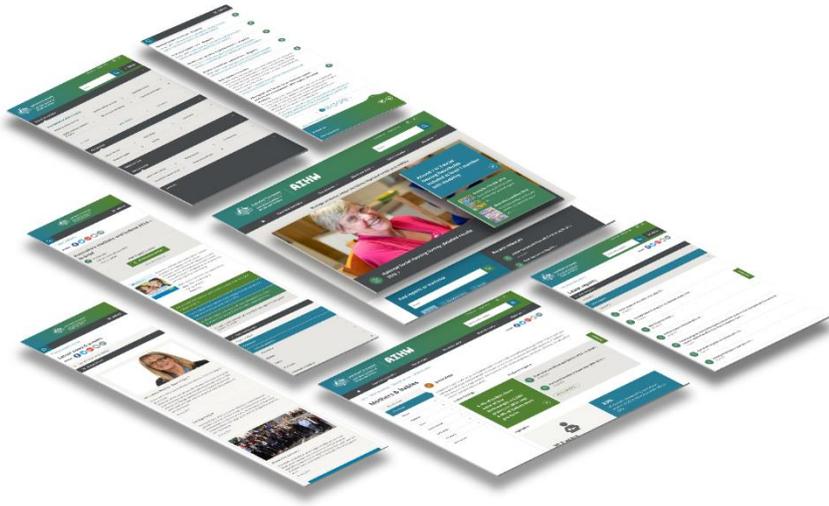
To keep URLs, security settings, and smart search information up to date, a large number of Kentico's global events were used. This allowed Zeroseven to control staging tasks, document URLs that relied on parent properties, and automatically create content nodes and structures for ease of content editing.

Templates

The report templates were configured in a way that, on every page of the report, the core information about the report (ISSN, publish date, etc.) was visible. In order to make a better, smoother user experience when navigating between pages within the report, the user stays on the page, with the content of the page updating via AJAX requests. As well as this, the user's browser will update the URL, meaning the user can bookmark the individual page within the report and the navigation will be logged in the browser's history, so if the user navigates back, it will behave as they expect.

Custom Data Sources for Reports

There was a large number of places where Reports and Report 'Findings' were displayed in lists across the site. Instead of making custom web parts for each location on the site, Zeroseven created a Kentico Data Source web part which allowed reports or findings to be queried by using a single set of configurable properties and 'where' clauses. This allowed Zeroseven to seamlessly use Kentico repeaters and the Kentico UniPager without any additional configuration. The web part would also take advantage of Kentico's data source caching.



Results

Download speed has increased by 150%, compared to the equivalent page on the old CMS a month prior to the new website launch in October 2017. This was a key performance indicator for the project. Kentico Pages and Widgets provided a way to cater for a diverse range of content with a limited selection of widgets, giving content authors the flexibility required for the various types of reports, while ensuring the design standards and brand are upheld. Kentico Custom Tables were used to group and link reports outside of the usual page hierarchy.

Key Criteria for Choosing Kentico

The main complexity of the AIHW website was content had to be edited, staged, and reviewed in distinct groups of nodes, rather than node by node.

These groups were Reports that contained a potentially large sub-tree of nodes of varying types, associated images, and documents, as well as top-level information that applies to all nodes beneath it.

Kentico's Staging Module and API features were leveraged in order to achieve a specific client brief with custom solutions built on top of the already robust Kentico infrastructure.



Zeroseven

Zeroseven creates tailored web solutions serving a wide variety of tasks, from customer-facing E-commerce websites to business management applications that improve a company's effectiveness in today's integrated and always-connected world.

With more than twelve years' experience and many industry certifications, Zeroseven are experts in planning, developing, and designing a wide range of mobile and web applications that enhance business operations.

Zeroseven seamlessly guided Racing Queensland through the process of implementing a new customer-facing website that has enabled digital brand promotions to consumers as well as improved information delivery to industry stakeholders.



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