

Search Show & Tell

Technical Enablement – Iteration 1, May 2015

presented by Rob Sinclair, Lauren Lukasiewicz & Steve Moody

Technical Enablement Mission

Support NHS Choices Transformation through the investigation of technology options and standards, to enable sustained and continuous delivery of value to users, throughout Alpha, Beta and Live.

Search Alpha Vision

The new choices alpha search

Is a throw away proof of technology

For technical teams within NHS Choices, NHS Choices users and stakeholders i.e. NHS England

Who want to remove silos of data and content and add context to results

Unlike the existing search

Search Alpha Team

Role	Who
Product Owner	Rob Sinclair
Business Analyst	Steve Moody
Delivery Manager	Joanne Blake
Architect	Russell Fella
Researcher	Lauren Lukasiewicz
UX Architect	Marcus Maher
Developer	Yiew Lau
Developer	Nigel Attwell
Developer	Mohan Jambunathan
Developer	Daniel Cockerham
Ops Specialist	Tom Barrett
Search Product Owner	Matt George

Search Hypothesis

"Many applications use search as the primary interaction pattern for their users. When it comes to search, user expectations are high. Users expect great relevance, suggestions, and solid linguistics that effortlessly handle spelling mistakes, near-instantaneous responses, multiple language, faceting, and more."

Search Hypothesis

By undertaking this work the following points will be answered:

- A way of bringing content together from the existing site and new nhs.uk is achievable using search
- · A search solution where indexes are populated through a data stream is effective
- A search experience more Google than Google can be achieved with the outputs from Information Seeking or other Transformation streams
- The solution is extensible for the inclusion of Ontologies or Graph solutions

This will be measured through:

- Ability to search for content and have results returned from MVS and Transformation
- · Effectiveness of the search results as compared against existing GSA Solution
- User Testing of resulting experience
- Proposals for the extension of the solution and identification of next steps

- 1. What do users want & hope to "see" when they search (vary by type of search/info requirement/device)?
- 2. What does a "good" onsite search mean to them (look & feel like? is it about process? outcomes? (Vary by type of search?)
- 3. Perceptions and experiences of existing NHS Choices search process and outcomes?
- >>> User strengths, weaknesses?
- >>> Site opportunities, threats?
- >>> Improvement areas?
- 4. Perceptions and experiences of potential [Google style] NHS Choices search pages and outcomes?
- 5. Are we going in the right strategic direction (towards curated, semantic content) to meet existing & emerging user needs?

. They sort it all out for you and make everything easy.

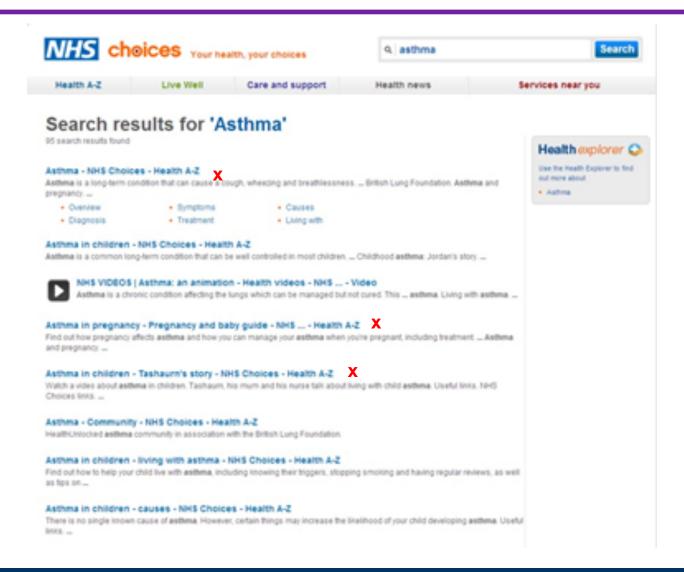
Most of the time you find what you need on that Google page.

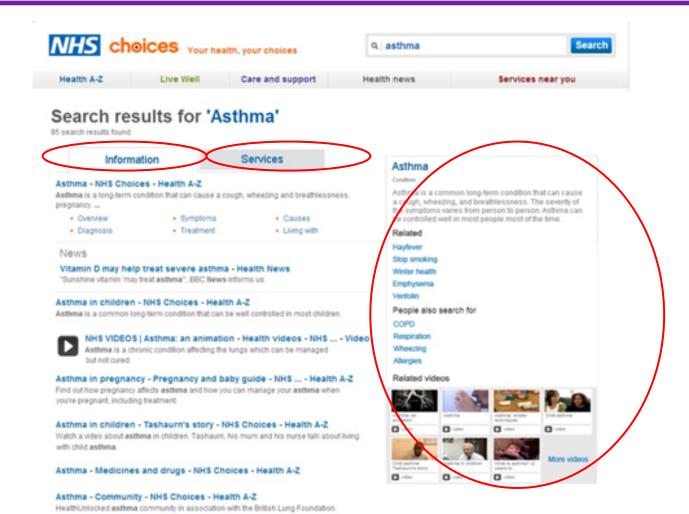
The best thing about Google is that they do it for you. You tell them what you're interested in and they do all the work for you.

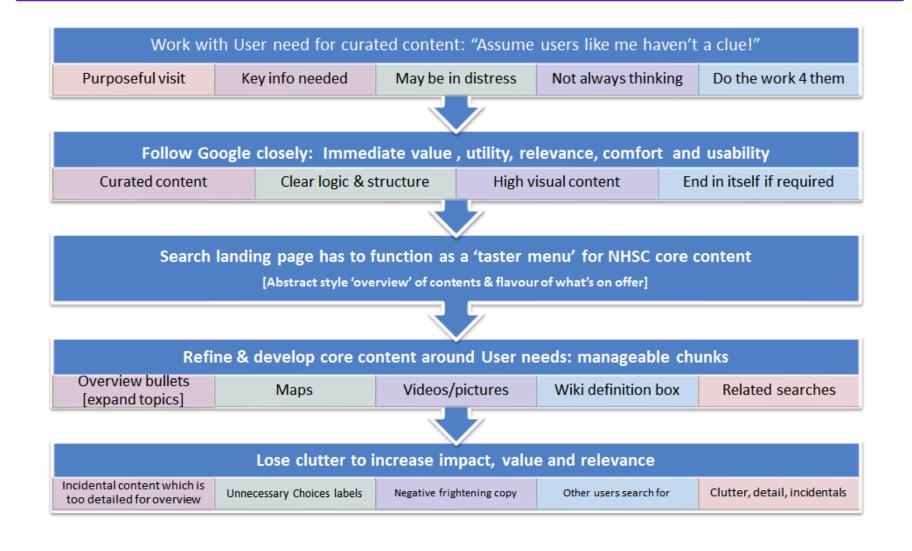


It's just so straightforward,
you'd never want to go
anywhere else. You asked me
to look at Bing and Yahoo
before I came and I hated
them.. It's just lists, there
isn't any sense to it at all

Google: does it for you







Search in other discoveries and alphas



Users want the dentists search results to be ordered according to who is closest to them

Users want a map of where the nearest dentists are

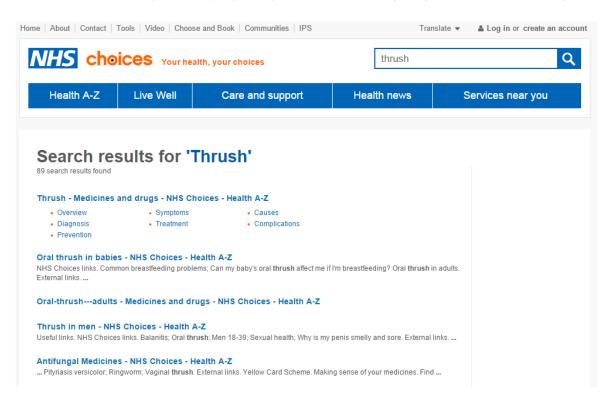
The search results should indicate whether the dentist is taking on NHS patients

Wording used to describe the other types of patients that dentists are accepting needs to clearer

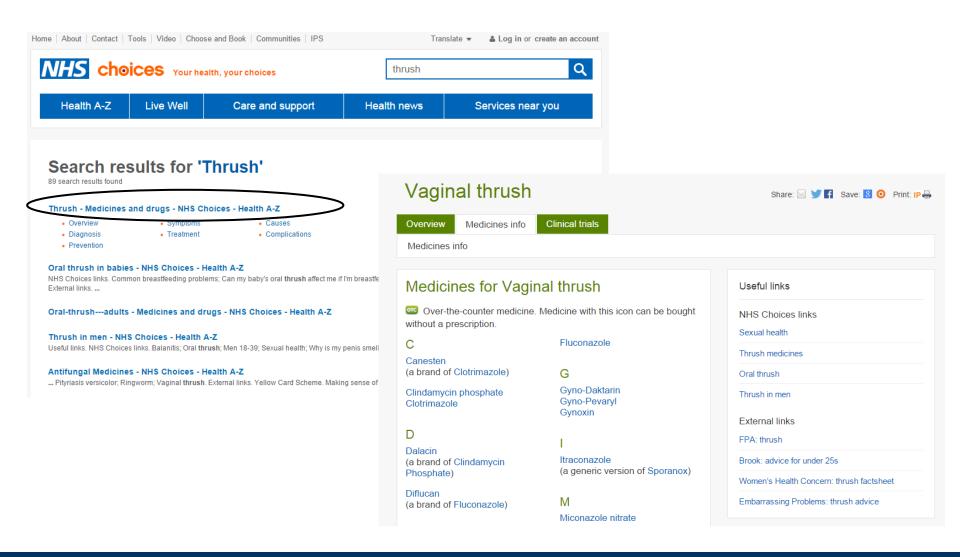
Users want ratings derived from numerous, recent reviews

Search in other discoveries and alphas

- Users of Choices
- Google subject and go into Choices that way
 - "If I don't find it straightaway I just go back out to google and search again"



Search in other discoveries and alphas



Iteration 1&2 - What did we plan to deliver?

CI Pipeline

Search Index for Information

Search for Information

Azure setup

Search Index for Organisations

Source Control Setup

Front-end framework

MVC framework

App to populate Indexes

Scoring & Relevance

Org Telephone Numbers Faceted
Organisation
Results

Initial Styling

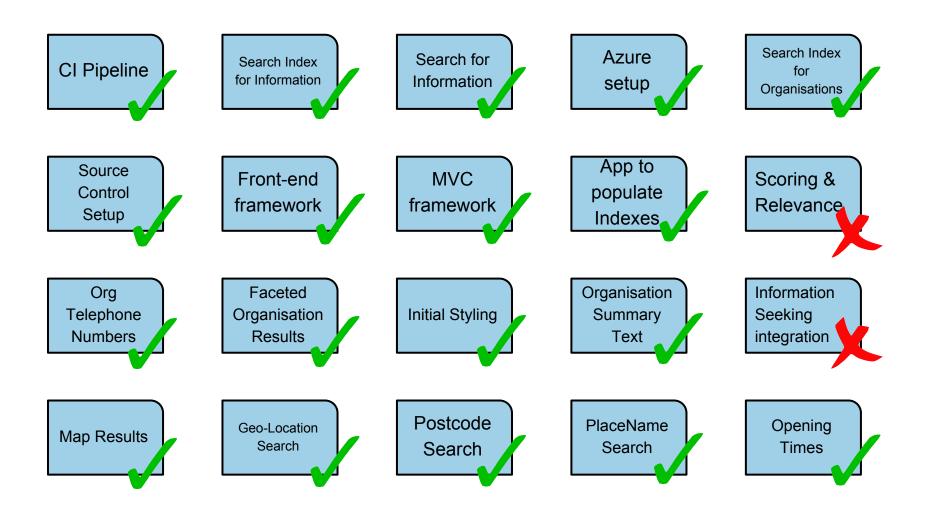
Organisation Summary Text Information Seeking integration

Map Results

Geo-Location Search Postcode Search

PlaceName Search Opening Times

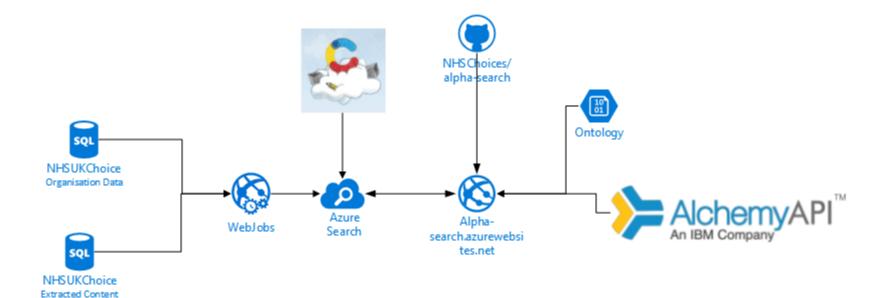
What did we deliver and what's left?



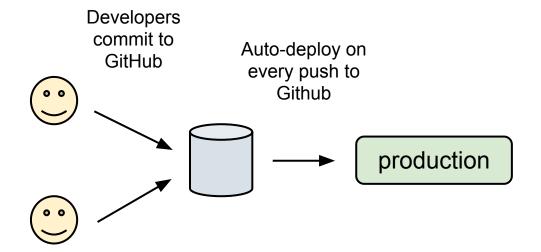
Demo

http://alpha-Search.azurewebsites.net/

Technical Architecture



Deployment Pipeline







Iteration 3 & 4 - Plan

Create a crawler to extract content

Services scoring and relevance Spike -Common ontology to rtn org's & content

Content scoring and relevance

Services - load indexes for org' s and treatments

Information arrange based on user needs Services -Arrange results based on user needS

Filter 'real life stories'

Services add miles away for user

Please come and talk to us

An overview of our initial work looking at the NHS referral process.

@ 11am Tuesday 12th May