Shaping the way we interact with the world through product strategy and design.

FEATURED WORK: 2006 - 2012

3M Innovation Center

Responsive Web Experience

ReSound ClearPath

Medical iOS Application

ITT Scorpion USB Drive

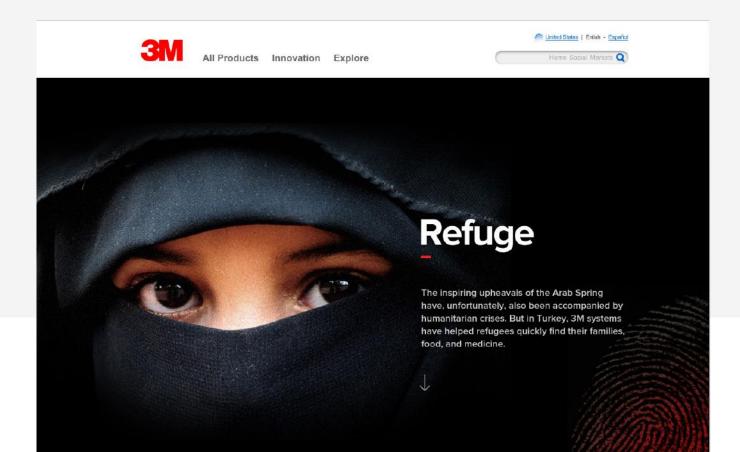
Embedded Software/ Packaging

3M Mpirico

Enterprise Web Application

Land Securities

3D iOS Experience



3M Innovation Center

3M I RESPONSIVE ENTERPRISE PLATFORM

AGENCY

space150

BUDGET

1.25 Million+

CONTRIBUTIONS

Innovation Consulting: 10 Interaction Design: 10 Information Architecture: 10 Art Direction: 3 Strategy: 7 As ubiquitous the 3M name is, most of the world is unaware of the vast responsibility the company has for global innovation. To tell their story, 3M uses interactive innovation centers to immerse visitors in the story. With only a handful of centers globally, space150 was tasked to create a digital experience bringing the experience to life for the world to see.

With a deep understanding of how the Innovation Center experience functioned and a wealth of powerful stories, we set out to build a platform that would replicate the physical space while sharing innovation stories with the world. The platform would also leverage all the technical innovations present in their global digital infrastructure and connect them in a way that would scale globally.



PROJECT OBJECTIVES

TARGET MARKET

Focused on the "Influential Geeks", but relevant and accessible to the general public, business leaders, engineers and product developers.

RESPONSIVE DESIGN

Accessible and scalable to all devices with a single code base.

GLOBAL INFRASTRUCTURE

Integration into 3M's data infrastructure acting as a bridge between cataloging systems and media assets.

STORY-BASED

Provide a connection to ingredient products through the end products they enable and the problems they solve.

CONNECTION TO PRODUCTS

Create relevance by connecting users to stories, stories to technologies and technologies to core product offerings based on browsing behavior and history.

CORE ACTIVITIES AND RESPONSIBILITIES

STRATEGY AND RESEARCH

Competitive audit. Content audit. Stakeholder interview development and execution. Persona development. Business analysis.

DELIVERABLE

Project pitch including overall strategy summary, UX strategy, creative directions, and technical recommendations.

INTERACTION DESIGN

User flows. Explorative and explanatory sketches. Prototyping. Wireframes.

DELIVERABLE

Interactive prototypes.

INNOVATION CONSULTING

Technical research. Interaction modeling and research. Feature prioritization and new technology exploration and prototyping.

DELIVERABLE

Scenario narratives, interaction prototypes and technology roadmap.

ART DIRECTION

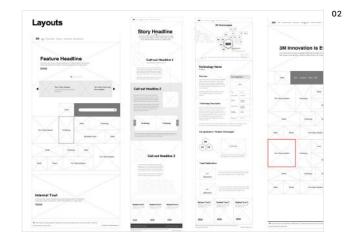
Brand evaluation. Iconography. Interface elements. Typography.

DELIVERABLE

Interface moodboard, prototype, style tiles.

EVOLVING THE DIGITAL ECOSYSTEM

01



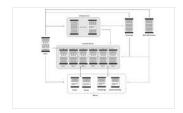
Story Headline

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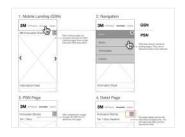


O 4 Innect with 3M: Connection Tool

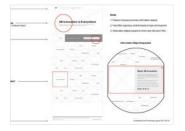
Connect with Us



06

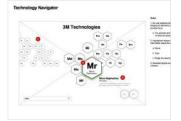


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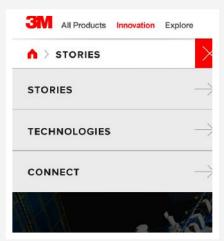
3M is responsible for much of the worlds innovative products. With over 2 million available products focused solely on enabling the development of others, organizing and promoting them has been an ongoing challenge.

To get the project moving, we focused on the structural elements of the experience, beginning to reshaping 3M's global digital ecosystem from the outside in - putting user needs first. With navigation, digital touch points and data models in place, we began the process of developing the responsive experience, mobile first.

- **01** Initial template design and definition
- **02** Innovation story mapping
- **03** Initial data and site architecture model
- **04** Connect with 3M simulated intelligence
- **05** Internal tout exploration
- **06** Responsive navigation
- 07 Live feed interaction model
- 08 3M Technologies interaction model



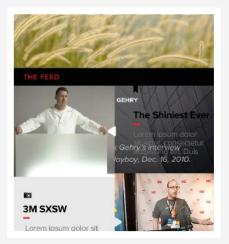
01 Responsive navigation



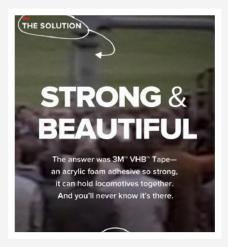
02 Scalable structure



03 Mobile optimized hierarchy



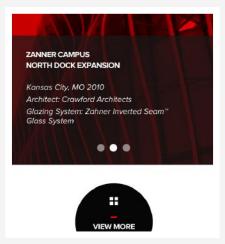
04 Mobile optimized interactions



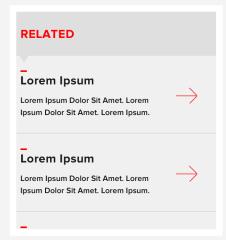
05 HTML5 animations



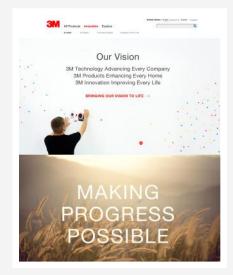
06 Dynamic connection to products



07 Intuitive responsive modules



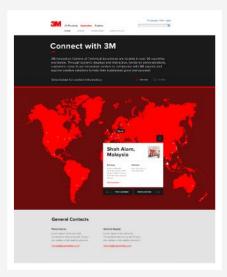
08 Mobile first design



01 Home Page



04 Technologies landing page



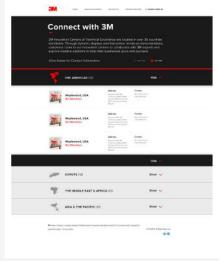
07 Connect with 3M map view



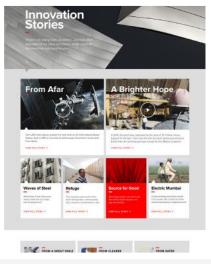
02 Innovation Feed



05 Technology detail page



08 Connect with 3M list view



03 Innovation Stories landing page

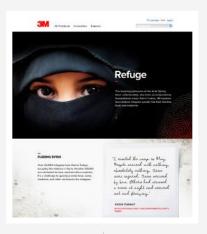


06 Technology touts

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STORY STRUCTURE

The structure of the 3M innovation process and story drove the architecture of site and page level hierarchy.

01 INTRODUCTION

Showcase real people, in realworld situations.

02 ABSTRACT

A short teaser that states 3M made this scene happen.

03 RESULT

People are empowered to do something they couldn't before.

04 CHALLENGE

Explanation of the situation before it was solved.

05 SOLUTION

Tell the story of the 3M technology that made the difference.

06 BRANCHING

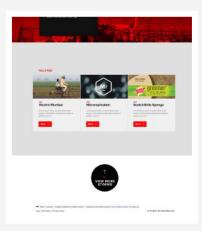
One story leads to another through core technologies.



05



3M Biometrics in Practice Pointing the Way 06







Resound ClearPath

RESOUND I IOS

AGENCY

space150

BUDGET

175k+

CONTRIBUTIONS

Product Design: 10 Innovation Consulting: 8 Interaction Design: 10 Information Architecture: 10 Art Direction: 8 Strategy: 8 Selling hearing aids is a difficult process. Customers rarely understand how a hearing aid can help them in their daily lives. Customers also don't perceive their loss as "bad", requiring a more powerful device and trend towards purchasing low quality equipment. ReSound set out to change this by approaching space150 to create a sales tool to better connect patients with their products.

With a clear understanding of the problem, we set out to build a flexible counseling tool that would connect users to features earlier in the purchasing process. As a result, patients would be able to understand why features were important and how they related to the technology driving them. Patients were now able to focus on the appropriate device based on actual need.



PROJECT OBJECTIVES

TARGET MARKET

Developed for ReSound dispensers to counsel patients ranging from mid 50 to the late 80's.

FLEXIBLE

Provide a complete consultation path while allowing dispensers the freedom to choose how they move through the evaluation.

ACCESSIBLE

Design must follow accessibility standards while applying product branding throughout the experience.

SCALABLE

Create a structure that can grow with ReSound product lines and evolving customer facing software systems.

UNDERSTANDABLE

Create a tool that enables a conversation between dispensers and patients focusing on the benefits and purpose of technology in a context patients can relate to.

CORE ACTIVITIES AND RESPONSIBILITIES

STRATEGY AND RESEARCH

Competitive audit. Reframing. Stakeholder interview development and execution. Persona development.

DELIVERABLE

Product and experience strategy. Stake-holder interview and focus group analysis.

INTERACTION DESIGN

User flows. Software architecture. Explorative and explanatory sketches. Prototyping. Wireframes.

DELIVERABLE

Sprint-based Interactive prototypes.

USER RESEARCH

Concept model. Customer journey map. Scenario narratives. Customer and dispenser interviews. Survey.

DELIVERABLE

Product architecture documentation. Summary of findings documentation.

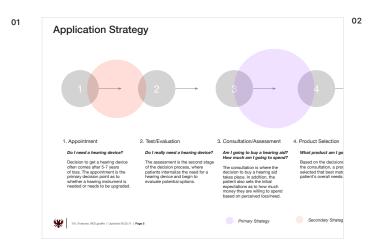
ART DIRECTION

Brand evaluation. Iconography. Interface elements. Typography. Visual Language.

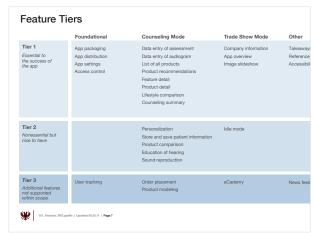
DELIVERABLE

Interface moodboard, style tiles.

FINDING FORM



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The Ux Challenge

Counts hands, and demonst connecting experiences
backers recovered them has been experienced.

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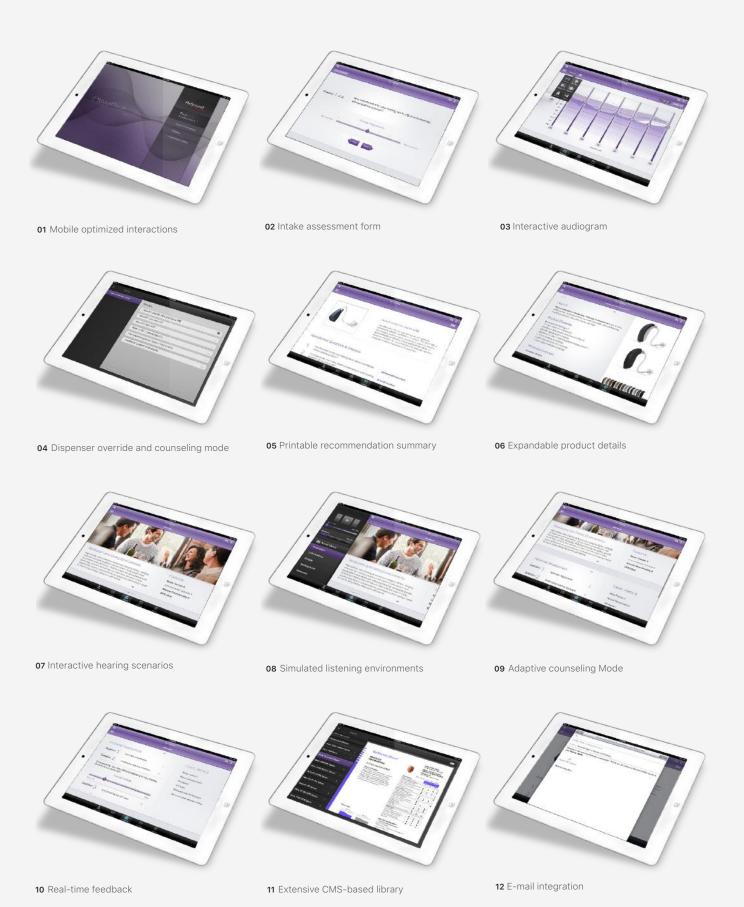
The Strategy as a Whole

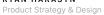
| Comparison of the Com





- **01** Patient Counseling Flow
- 02 Feature Map/ Prioritization
- **03** Experience Strategy
- **04** UI/ Interaction Mood Board
- 05 Interaction Models
- **06** Concept Sketch
- **07** Wireframe Prototypes
- 08 Recommendation Engine Modeling







Scorpion Secure USB

ITT CORPORATION | CONSUMER ELECTRONICS

CUSTOMER

United States Government and Military Forces

CONTRIBUTIONS

Product Design: 10 Industrial Design: 3 Interaction Design: 10 Information Architecture: 10 Visual Design: 10 Strategy: 5 The Scorpion Secure USB drive is a mobile Data at Rest security solution for military and Department of Defense (DoD) organizations requiring top secret security protection in a disposable, portable, non-classified form factor.

TRANSPARENT

Operate within military computer systems requiring no software or drive installation

COMMERCIAL-LIKE

Leverage commercial design and development practices to provide a modern look and feel and reduce overall cost and time-to-market.

SIMPLE

Provide a simple user interface with dual hardware- and software authentication

DISPOSABLE

Designed to be field replaceable and cost effective for DoD customer base. Extend to future DoD applications such as secure tokens and fill devices..

RESEARCH & ANALYTICS

The complexity of the user environment was the primary challenge in developing the product. Extensive customer interviews were conducted from both technical and marketing teams to gain a better understanding of the environment the devices would be used in and identify baseline requirements to begin product development.

Development efforts began for both hardware and software teams by reviewing the USB market landscape and analyzing a robust engineering tear down of competitive products to learn from existing technology providers and aid in evaluating design decisions.



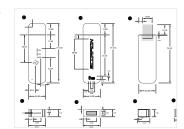
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01 Concept Designs (ATOM)

02 Mood Range - All

03 Mood Range - Category

04 Pre-Concept Prototype

INDUSTRIAL DESIGN

Traditional products designed for the DoD maintain a number of analog features due to the environmental and physical constraints of the war fighter. This model is often applied to non-ruggedized and digital products. To reduce cost and provide more relevant experience to the non-war fighter we designed and produced the drive leveraging commercial practices where allowed.

PROTOTYPE AND USER TESTING

A key challenge for the product was aiding in lifting the DoD ban on the use of all USB drives in military computing systems. By using engineering prototypes and a theory of operation we were able to create a new classification for USB drives allowing their use for those who are cleared.

SOFTWARE DESIGN

The Scorpion USB drive required a system design that blended hardware, software, and firmware in a way that had never been approached before. This required the framework to provide maximum compatibility without forcing software upgrades and be under 5Mb

01



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- 01 Initial template design and definition
- 02 Innovation story mapping
- 03 Initial data and site architecture model

In the case of military products, speed and ease of use are critically important and having a fast and intuitive interface was a key performance evaluator. The Scorpion interface was designed to provide all functionality from a single screen and eliminated any feature that was not accessible in specific modes.

BRAND AND PACKAGING DESIGN

04



ITT traditionally delivers products in bulk on pallets direct to military bases. The Scorpion USB drive was the first of its kind for ITT and required a packaging style that was familiar to the military but with a little personality. The strategy was to blend the style of "Meals Ready to Eat" (MRE) packs with the high-tech look and feel of consumer devices.



04 Trade Show Banners 05 Packaging Label



3M MpiricoTM

3M I WEB APPLICATION

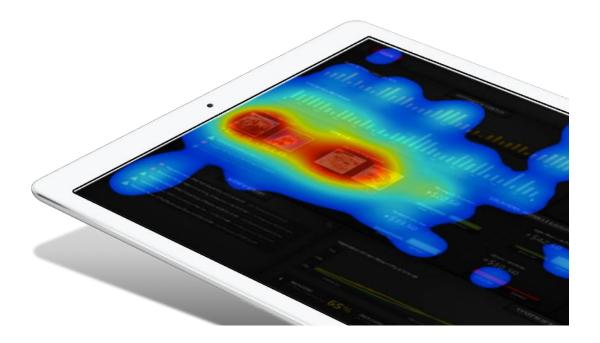
AGENCY

space150

CONTRIBUTIONS

Product Design: 10 Innovation Consulting: 10 Interaction Design: 10 Information Architecture: 10 Art Direction: 8 Strategy: 6 3M's MpiricoTM system combines the power of a closed loop display network, analytics tools and CMS platform to evaluate in-store advertising as it directly affects purchasing behavior. 3M's closed loop solves a fundamental problem, because it works without requiring "clicks" needed by an Internet closed loop. No physical interaction with the content or the display is needed.

The system was designed to work within any environment that 3M's closed loop can be established; it connects the digital sign network, digital content promoting available products and services, and a data stream associated with customer business goals.



PROJECT OBJECTIVES

TARGET MARKET

Global retailers with point of purchase systems and in-store advertising.

CMS CORE

Develop a systems to easily manage, house, organize, test, and serve all content across the display network.

ANALYTICS INTEGRATION

Integrate a robust analytics platform to continually analyze and optimize marketing and system performance

SCALABLE

Design a system to support multiple user and data types from single store environments to global networks.

DISPLAY NETWORK

Provide a simple user interface to manage system assets and control simple to complex display networks across one or multiple locations within an enterprise environment.

CORE ACTIVITIES AND RESPONSIBILITIES

PRODUCT STRATEGY

Stakeholder interview development and execution. Persona development.

USER RESEARCH

Technology evaluation. Product roadmap. Requirements documentation. Agile project development implementation. A/B and focus group testing.

SYNTHESIS AND SENSEMAKING

Insight Combination. Reframing. Contextual design. Card sorting. Affinity diagrams. Concept mapping.

INFORMATION ARCHITECTURE

User flows. Software architecture. Explorative and explanatory sketches

UI DESIGN

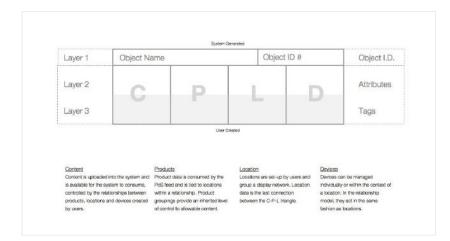
Wireframing. Prototyping. Storyboarding. Sketching. Iconography. Interface elements. Typography. Styleguide development.

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DESIGNING THE SYSTEM

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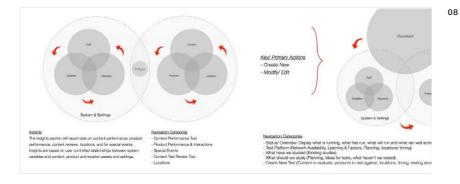
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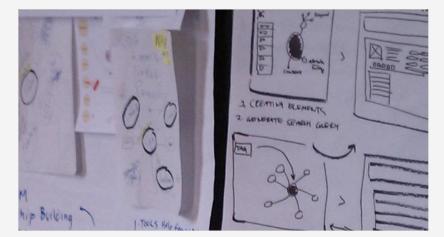
07



- 01 Database model and architecture
- 02 Interface exploration: Input methods and attributes
- **03** Interface exploration: content management
- 04 System object definitions
- **05** System object definitions
- 06 Mental model: system interactions
- 07 Data model: System objects and user tasks
- 08 User testing results

RESEARCH, SYNTHESIS AND SENSEMAKING

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 Profess Weekly Control

Contro

Designing the 3M Mpririco™ system presented a wide range of challenges requiring a significant amount of user and business research. By evaluating current business and marketing ROI tools, interviewing and observing multiple persona types, and understanding end-cusotmer behavior, we were able to synthesis the data into four different font- and back-end approaches to the system.

- **01** Discovery and concept exploration
- 02 Affinity diagram and concept model
- 03 Iterative concept sketch work
- 04 Concept A development and testing
- 05 Concept B development and testing

rtharasyn@gmail.com 612.669.7778 1026 E. Terrace St. Seattle, WA 98122

Product Strategy & Design

| Newligation: | Home/ Deabboard | Display Network | Inside to | Content | Products | Name |

Manage Armateus T. Biss Management T. Bisser Flasme L. Machine L.



01 INFORMATION ARCHITECTURE

Based on the overall system architecture we created a category based map of the application and applied a template structure to each section.

02 INTERACTION DESIGN

Varying level of wireframes were created and used to test a variety of architectures and user flows, and act as technical guidelines for development teams.

03 AGILE DEVELOPMENT

User stories, personas and sprint proposals were used to design and develop the software. Sprints were planned based on the user experience strategy and alpha test planning.

Team 1 Sprint 1 Proposal

US 80 - Admin User is able to create standard users. This story has behaving description and deep others:

As as Admin User. I would like to create standard users. The same of the standard users of the same o

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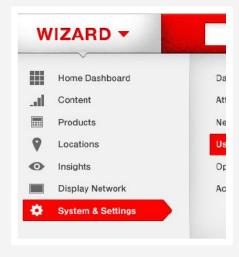
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rtharasyn@gmail.com 612.669.7778

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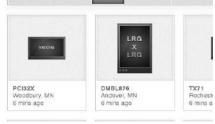


01 Global navigation

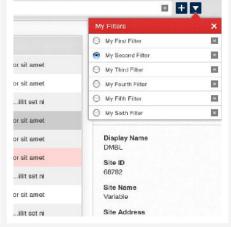
02 Customizable controls

03 Expandable details





LRGXLRG DMBL Woodbury, MN



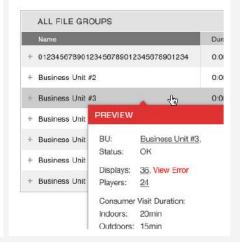
04 Grid view with animated indicators

05 Custom icon library

06 Contextual controls



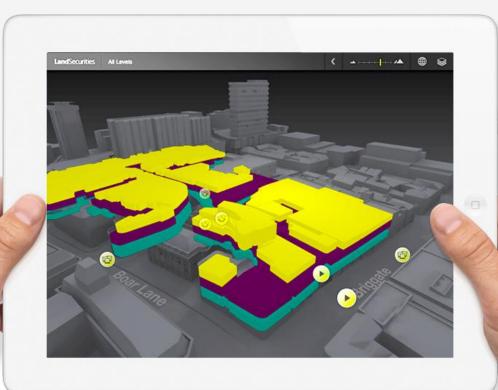




07 Wizard based system

08 Themeable interface

08 Scalable system architecture



Land Securities Presenter

LAND SECURITIES UK I 10S

AGENCY

space150

BUDGET

250k+

CONTRIBUTIONS

Product Design: 10 Innovation Consulting: 4 Interaction Design: 10 Information Architecture: 10 Art Direction: 10 Strategy: 4 Commercial real estate is cutthroat. It's a game of show and sales. The traditional foam-model pitch is expensive and inefficient, yet it's been the industry standard for decades. Land Securities knew there had to be a better, and came to space150 for help reshape their sales experience.

ADAPTABLE

Flexible presentation structure to match dialogue patterns and allow for easy transition from data types to properties

NETWORK AGNOSTIC

Provide all up-to-date content without reliance on wireless network access while maintaining high quality and performance.

SCALABLE

Allow for management of application and property data to be centrally managed by Land Securities and pushed to devices.

INTERACTIVE

Provide better than physical model showcase of properties. Allow viewing and sharing of media assets library.

CORE ACTIVITIES AND RESPONSIBILITIES

01 STRATEGY AND RESEARCH

Competitive audit. Feature and requirements gathering. Stakeholder and user interview development and execution. Persona development.

02 EXPERIENCE DESIGN

User flows. Software architecture. Explorative and explanatory sketches. Prototyping. Technical wireframing.

03 INNOVATION CONSULTING

Technology evaluation and testing. Product development roadmap. Agile project development management and implementation.

04 ART DIRECTION

Brand execution. Iconography. Interface elements. Typography.

01

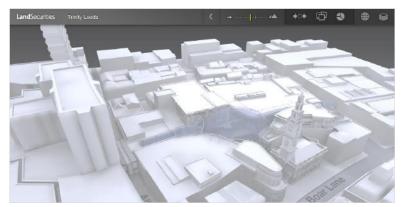


Navigation Principal
Data is presented in three forms. The first is a high level sidebar, the second a document viewer, and the last, an interactive, full screen overlay. Left: A full screen overlay presents property data to users and allows for detailed interactions and investigation.

02 Land Securities Trinity Leeds Dest 1 Dest 2 Dest 3 Overview



03



04





DEMO VIDEO

http://vimeo.com/36707003#at=0

Flexible Presentation Architecture allows the user to choose a presentation path and access data as conversation dictates.

01 LOAD SCREEN

Initial load animation and CMS checksum.

02 INTERACTIVE MAP

Fully functional map of the UK with property navigation.

03 MEDIA GALLERY

On-demand media gallery based on property selection from global title bar.

04 INTERACTIVE CHARTS

Catchment and spending data based on property selection.

05 3D MODELS/ PROPERTY DETAIL

Interactive 3D model with expandable floors for showcase property. Addition 2D maps for all other properties.

