



byrne.

Capability Statement



# Creative Engineering for Better Communities.

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*“Serving the community by designing, constructing, and managing quality infrastructure assets that will provide exceptional long-term value.”*

-Simon Byrne, Managing Director



# 15+ Years of Engineering Excellence

Byrne Consultants was founded with a key goal: to provide creative engineering solutions that put the community, and the people within it, at the forefront. It is this goal that has guided Byrne over the past 15+ years of business and the foundation from which our successful projects, distinctive culture, and long-lasting relationships have been born.

We have developed a reputation for delivering quality infrastructure assets that provide exceptional value. We leverage our technical competence, local knowledge, and solutions-driven approach to consistently exceed client expectations while investing in the lasting alliances we have with stakeholders and suppliers.

As a proudly Australian business, our team has a shared ethos firmly grounded in collaborative success and integrity. We know that the future of our company lies in the hands of our people, and we pride ourselves on developing innovative solutions that benefit our wider community.

Our culture, heart, and dedication to excellence are what sets us apart, and we look forward to what the next 15 years will hold.

A handwritten signature in black ink, appearing to read 'SByrne', with a stylized flourish at the end.

Simon Byrne  
Managing Director

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# About Byrne Consultants

*Byrne Consultants is an adaptive engineering firm that produces innovative and sustainable solutions for our clients and local*

Byrne boasts a collaborative team of experts. Our moderate size allows us to be agile and precise in our decision-making. We think laterally in response to problems, and embrace cutting-edge technology and software solutions as standard for our clients. We are locally owned, meaning that we value the social outcomes of our projects just as much as the financial. Long after each project delivery, it will be this legacy and community engagement that drives our growth for decades to come.



## Excellence

We harness our technical expertise to deliver innovative engineering solutions.



## Community

We are loyal to our local community and are committed to sustainable improvements.



## Integrity

We earn the trust and respect of our clients through hard work and professionalism.



## Unity

We work as a team in unity with our clients to deliver precise and succinct project results.

**Shared vision.  
Shared values.  
Better communities.**

“Byrne’s ethos sets us apart in the industry. Our collaborative environment, shared vision, and passion for continuous development are unique. We know that giving back to our community starts with our people. With these values front of mind, our creative engineering solutions will continue to have lasting positive impacts.”

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# Our Leaders

*You can depend on our leadership team's experience and technical expertise to deliver remarkable outcomes for your projects.*



**Simon Byrne**  
Managing Director

Founder and Director of Byrne, Simon brings over 30 years of experience in all areas of civil design, engineering, and management of major projects. He is a recognised industry leader and is passionate about facilitating the success of his team.



**Paul Brandis**  
Director

Paul is a passionate problem-solver focused on delivering innovative, safe and sustainable engineering solutions for the Darwin community. Paul was recognised at the 2018 Australian Engineering Excellence Awards in the 'Young Professional Engineer of the Year' Category.



**Gary Boyle**  
Director

With experience spanning project, contract, design, and environmental management, Gary is an integral member of the Byrne team. He has also held national positions with the Sustainable Engineering Society and Centre for Engineering Leadership & Management.



**Megan Armstrong**  
Commercial Manager

An integral part of Byrne's management team, Megan seamlessly coordinates all corporate and business functions, including finance, insurance, IT, human resources and facilities management.



**Nathan Cooper**  
Principal Engineer

Nathan contributes over 15 years of experience as a transportation design engineer for a range of projects. His expertise covers project and design management, road geometry, safety barrier assessment, drainage design, hydraulic modelling, and more.



**Geoff Mackenzie**  
Senior Project Director

Geoff has over 20 years' experience leading and managing engineering projects and maintenance programs for state and federal Governments, including residential and industrial subdivisions, infrastructure, roads and contaminated land management.



**Sam Colwell**  
Senior Civil Engineer

Sam has 17 years' experience in the planning, design and construction of bulk earthworks, highways, airfields, bridges, stormwater, utilities and traffic management. Having worked across both the public and private sectors, Sam is proficient in managing projects from the tender phase to completion.



**Armin Taklif**  
Digital Engineering Lead

Armin has over 15 years of experience in the commercial and civil construction industry and has been focusing on Digital Engineering (DE) projects since 2015 when he shifted his career from managing construction to specialising in different DE technologies such as BIM, GIS, and other related systems for driving better businesses, projects and asset management outcomes.

# Our People

*Technical expertise and efficient processes are nothing without our people. At Byrne Consultants, our interconnected team forms the foundation of our service.*

We are renowned for our passionate people who deliver the best possible design outcomes for our clients and the local community. Our team make it their mission to get to know you as much as the project at hand. We are very proud of our long-lasting industry relationships and alliances with private and government sectors alike.

We believe and stand by the saying 'Your Success is Our Success' and look forward to partnering with you to progress your vision.

# Our Partnerships

*Our trusted relationships and ongoing engagement with our clients, employees, subcontractors, and suppliers sets us apart.*

We strive to develop meaningful partnerships with our clients and maintain long-lasting relationships built on responsiveness, trust and integrity. Our collaborative approach allows us to deeply understand project goals and deliver the best outcomes possible for our clients, stakeholders, and our team.

Our client relationships extend from local councils, state and federal government and diverse enterprises to private developers.

## 3 Connected Locations

Our connected locations allow us to seamlessly work on projects throughout Australia, bringing local knowledge and community-mindedness to everything we do.

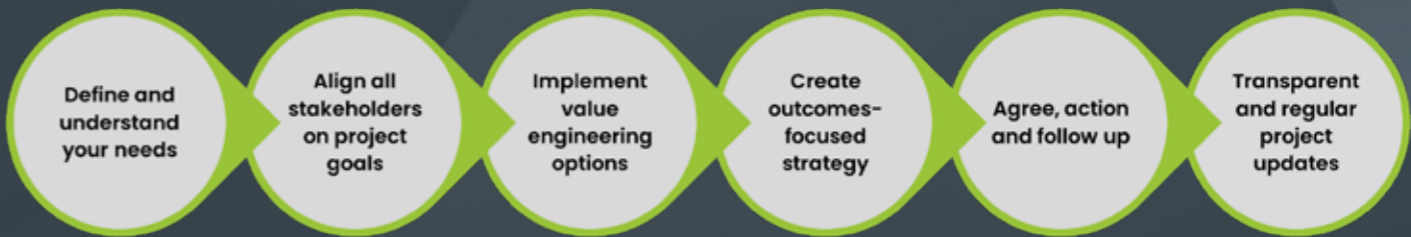
## 40+ Talented People

We are dedicated to nurturing a team with shared values, vision, and goals. Our people make us who we are, and we pride ourselves on working together to deliver excellence.

## 1k+ Successful Projects

Our portfolio is a testament to our technical expertise, innovative approach, and commitment to developing long-standing partnerships with both our clients and our communities.

## The pillars of our partnership approach:





## Our Expertise

- 01 Infrastructure
- 02 Transport
- 03 Environmental
- 04 Asset Management
- 05 Construction & Project Management
- 06 Digital Engineering
- 07 Visualisation



**Project:** Palmerston Boulevard Reconstruction & Goyder Square Redevelopment

**Client:** City of Palmerston

**The Byrne Difference:**

Creative collaboration with the City of Palmerston to create a vibrant, tropical and pedestrian-friendly city centre.



**Project:** Coolalinga Residential & Commercial Subdivision

**Client:** Gwelo Investments Pty Ltd

**The Byrne Difference:**

Being involved in all facets of the development allowed our innovative team to provide environmentally-sensitive solutions for stormwater and wastewater treatment while fulfilling commercial demands.

## 01 Infrastructure

*Civil infrastructure forms the backbone of our business, and we strive for excellence in all areas of civil engineering, design, and documentation. From advanced planning through to detailed design, documentation, and management of major projects, you can rely on us to deliver.*

Our team of engineers, designers, and project managers include accredited professionals with extensive experience in infrastructure design. We have worked with government and private clients to complete design and documentation for road systems, land development and servicing, subdivisions, public open space, parks, reserves, and sporting facilities.

Using the latest CAD and 3D modelling software, our design team work collaboratively with our clients to deliver solutions that not only meet all stakeholder requirements but are environmentally and socially sustainable.

Our experienced engineers have completed planning and engineering assessments to support infrastructure development, such as land suitability assessments, site servicing assessments, pavement condition, stormwater management, erosion and sediment control, and traffic impact assessments.

Our infrastructure expertise includes:

- Concept and detailed design
- Construction procurement documentation
- Quantities and cost estimates
- Authority liaison and approvals
- Land suitability assessments
- Site servicing assessments
- Pavement condition reports
- Dilapidation reports
- Stormwater management plans
- Hydrological and hydraulic assessments
- Erosion and sediment control plans
- Traffic impact assessments and SIDRA assessments
- Road safety audits
- CPTED & safety assessments
- Flood modelling
- Construction procurement documents

**Project:** Business Case for Waterford Tamborine Road

**Client:** Department of Transport and Main Roads

**The Byrne Difference:**

An understanding of the approval framework, project objectives, and outcomes allowed for an advanced concept design to be provided, space-proofed and accurately priced for incorporation into the Transport Infrastructure Program.



## 02 Transport

*Byrne Consultants understands that a city's lifeblood is its transportation infrastructure and places great importance on effectively planned, engineered, and delivered systems to facilitate a positive impact.*

We work closely with federal and state government departments, including the Department of Transport and Main Roads in Queensland and the Department of Infrastructure Planning and Logistics in the Northern Territory, to produce quality transport planning and design for highways, interchanges, signalised intersections, and roundabouts.

Our experience and systems enable us to complete planning through to detailed design and provide engineering advice to clients to assist them in successfully delivering projects, including pavement design, service clash assessment, design of service relocation, and construction traffic management.

Our services include:

- Concept, Preliminary & Detailed Design
- Coordination of geotechnical investigation
- Engineering surveys and services location

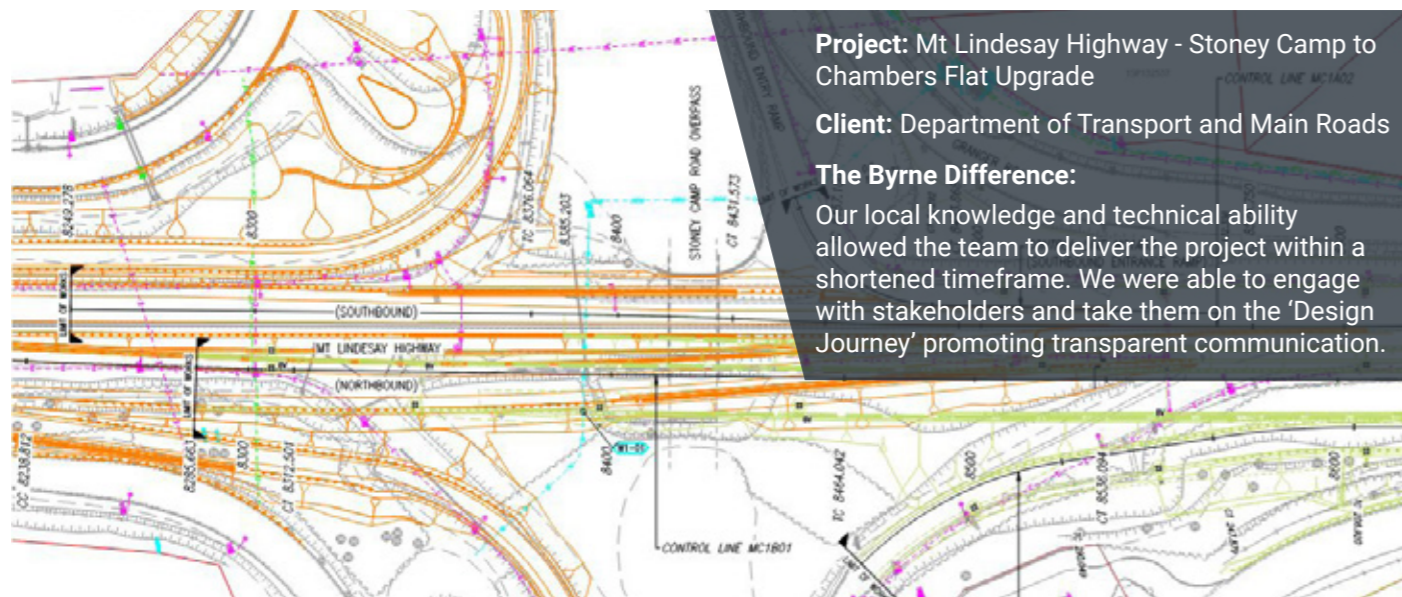
- Civil & Highway Engineering
- Stormwater Drainage Assessment, planning and design
- Program and Project Management
- Better Information Management (BIM)
- Active Transport Planning & Design
- Traffic Engineering
- Transport Planning
- Road Safety Audits
- CPTED & Safety Assessments
- Public Consultation and Engagement
- Traffic impact & Feasibility Assessment
- Construction procurement documentation
- Quantities and cost estimates
- Authority liaison and approvals

**Project:** Mt Lindesay Highway - Stoney Camp to Chambers Flat Upgrade

**Client:** Department of Transport and Main Roads

**The Byrne Difference:**

Our local knowledge and technical ability allowed the team to deliver the project within a shortened timeframe. We were able to engage with stakeholders and take them on the 'Design Journey' promoting transparent communication.



**Project:** Stuart Highway/Temple Terrace Intersection

**Client:** Department of Infrastructure, Planning and Logistics

**The Byrne Difference:**

An accelerated timeframe was achieved to meet client objectives which required flexibility in our design approach and exceptional commitment from key staff.



**Project:** Henri Roberts Drive, Clagiraba

**Client:** Ventia Pty Ltd/Department of Transport and Main Roads

**The Byrne Difference:**

An understanding of environmental legislation allowed us to incorporate environmentally and water-sensitive concepts during the early design phases of the project.



**Project:** Mary River Barrages

**Client:** Department of Infrastructure, Planning and Logistics

**The Byrne Difference:**

We used lessons from past failures to develop an innovative barrage solution to protect the Mary River floodplains from saltwater intrusion, whilst balancing the need for effective and controlled flood management to mitigate environmental harm.



**Project:** Zuccoli Primary School Sediment Ponds

**Client:** Halikos Group

**The Byrne Difference:**

We worked with our client and local authorities to lead the way for Northern Territory 'best practice' in erosion and sediment control management for building sites.



## 03 Environmental

*At Byrne, we understand the importance of nurturing a balance between economic development and environmental protection.*

With a holistic approach to planning and implementation, we support our clients in developing sustainable solutions that meet environmental standards and project goals.

Byrne Consultants engineers are Certified Professionals in Erosion and Sediment Control (CPESC) registered with the International Erosion Control Association.

Our portfolio showcases a range of projects where we have undertaken environmental assessments to inform better design applications. These include erosion and sediment control plans, preliminary environmental assessments and constraints mapping for land development projects and landscape assessment, and the design of wildlife passages for highway projects. We have also delivered several water-sensitive urban design projects and undertaken water quality assessment and modelling.

Our Environmental services include:

- Erosion and sediment control plans
- CPSEC certification
- Environmentally sustainable designs
- Water sensitive urban design
- Water quality assessment and modelling
- Hydrological and hydraulic assessments
- Preliminary environmental assessment
- Environmental constraints mapping
- Landscape assessments

**Project:** Road Asset Inspections

**Client:** Department of Infrastructure, Planning and Logistics

**The Byrne Difference:**

We always bring a professional engineering ethos to asset inspections, providing increased quality of data and reliability.



## 04 Asset Management

*We understand the importance infrastructure plays in the everyday life of communities across Australia and pride ourselves on fostering strong relationships with our clients to advise and deliver the optimal solutions for their asset management needs.*

Byrne Consultants offer a comprehensive range of asset management services to safeguard capital investments and maximise the longevity of assets, including roads, pathways, and stormwater drainage.

Using the best tools and technologies available, we develop strategies tailored towards the specific needs of both our clients and the community. Our systems and experience are the basis for determining required services levels, maintenance programming and demand management. We have developed specific and reliable asset policies and governance systems to ensure assets are maintained efficiently and economically throughout their life cycle.

Our Asset Management services include:

- Asset management policy development
- Maintenance programming
- Asset inspection and condition rating
- Safety and risk assessments
- CCTV inspection of pipe infrastructure
- GIS integration and location of services

**Project:** Mango RoadsHorsnell Road, Mocatto Road and Chibnall Road

**Client:** Litchfield Council/Department of Infrastructure, Planning and Logistics

**The Byrne Difference:**

Collaborating with both the client and contractors to facilitate construction roadworks and floodways.

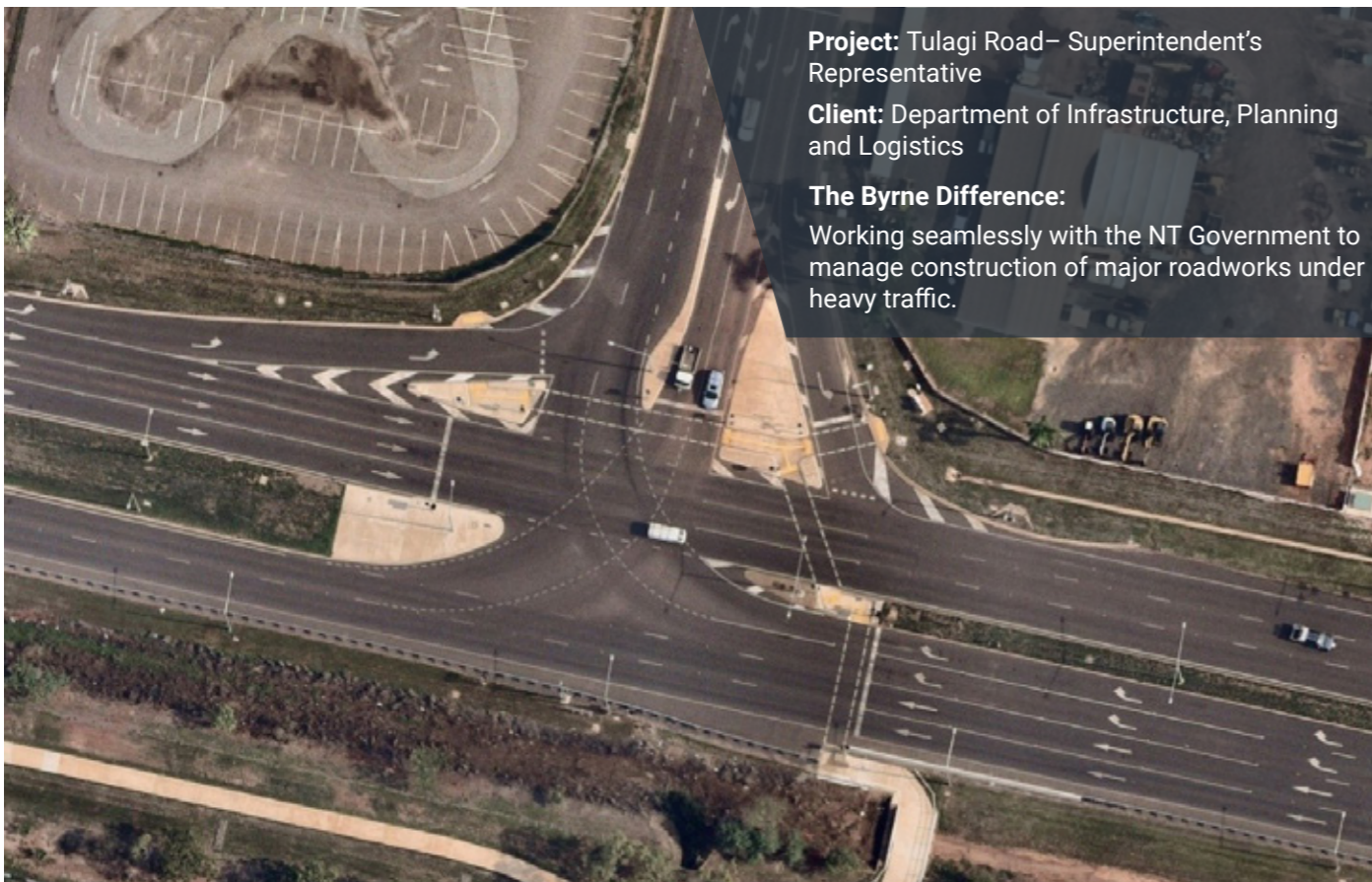


**Project:** Tulagi Road– Superintendent’s Representative

**Client:** Department of Infrastructure, Planning and Logistics

**The Byrne Difference:**

Working seamlessly with the NT Government to manage construction of major roadworks under heavy traffic.



## 05 Construction & Project Management

*Leveraging our construction experience and diverse range of capabilities, we work closely with clients to effortlessly guide them throughout the life-cycle of projects.*

Our work is built on proven systems and comprehensive experience to simplify processes, mitigate risks, and ensure targets for cost, time, quality, and safety are always met.

Byrne Consultants’ team of construction engineers and project managers has successfully delivered a range of engineering projects. They pride themselves on providing clear direction to contractors, performing rigorous inspections, and offering detailed and timely advice to all stakeholders throughout the construction process.

From government to private clients, we strive to achieve shared outcomes and success by working collaboratively from the project outset to ensure optimum solutions are always delivered.

Our Construction and Project Management strengths include

- Feasibility studies, options analysis and business cases
- Policy and governance development
- Program risk assessments and risk management strategies
- Construction project management
- Construction supervision
- Tender documentation and evaluation
- Appointment and supervision of contractors
- Construction quality inspections and certification
- Liaison with statutory authorities

**Project:** Mt Lindesay Highway- Stoney Camp to Chambers Flat Upgrade

**Client:** Department of Transport and Main Roads

**The Byrne Difference:**

Early stakeholder engagement allowed Byrne to understand what information and data structures the client needed, allowing a highly accurate and data-rich model to be produced for the next project phase within a short timeframe.



**Project:** Pacific Motorway (M1) Burleigh to Tugun Upgrade

**Client:** Department of Transport and Main Roads

**The Byrne Difference:**

Our accredited BIM team audited the submissions by the consultants for compliance with necessary requirements set out by TMR, and provided recommendations on how to improve internal BIM procedures and processes as per ISO19650.

## 06 Digital Engineering

*Our agile Digital Engineering team collaborates closely with engineers, designers, planners, client agencies and stakeholders. Together, we engineer and implement cost-effective, innovative digital solutions on complex projects, using technology and expertise to drive efficiency, provide quality outcomes and value for our clients.*

Byrne Consultants has a team of accredited digital engineering professionals with extensive experience delivering digital solutions. We are recognised by the broader industry and are a corporate member of buildingSMART Australasia.

Our DE Consulting Services include:

- Digital Advisory
- Digital Engineering Management
- Digital Engineering Delivery
- Change Management
- Technology & Innovation
- Digital Twins
- Smart Cities
- Geospatial Information Systems (GIS)
- Building Information Modelling (BIM)
- Data Analysis, Management and Integration

We leverage cutting-edge digital technologies and innovative software solutions to consistently deliver superior results. In our pursuit of excellence, we navigate the most efficient pathways to not only meet but also exceed expectations in the digital realm, harnessing technology to bring about top-notch outcomes and tangible benefits for every client.

Our ethos is deeply rooted in embracing innovation, fostering dynamic thinking, and contributing to research and development in the digital engineering space. We are committed to guiding clients through the complexities of digital transitions, always aiming to achieve the best possible results for our projects.

**Project:** Mt Lindesay Highway Upgrade

**Client:** TMR

**The Byrne Difference:**

We worked closely with TMR to develop this visualisation for community engagement purposes. This integrated approach created efficiencies and subsequent cost savings for our client.



## 07 Visualisation

*Our visualisation team have extensive project experience in visualisation and digital story telling, using it to communicate a greater level of understanding of complex projects to all project stakeholders, no matter their experience and background.*

We consider innovation as part of business as usual, and our staff utilises the latest visualisation technologies to ensure the best quality result for the client and communities at the best possible price.

We craft immersive 3D renders and models that bring ideas to vivid life. Our creations aren't just static; they're animated through video montages and fly-throughs, offering a dynamic glimpse into envisioned realities. With the integration of cutting-edge game engines, we push the boundaries further, offering Augmented Reality & Virtual Reality solutions that invite users into unparalleled immersive experiences.

Beyond this, we harness the power of interactive visualisation, enabling our clients and their stakeholders to engage with digital spaces in real-time through online portals and maps.

Our Visualisation services include:

- 3D Renders and Models
- Images, Video Montages and Flythroughs
- Augmented Reality & Virtual Reality solutions using the latest game engines
- Interactive visualisation experiences through online portals and maps

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