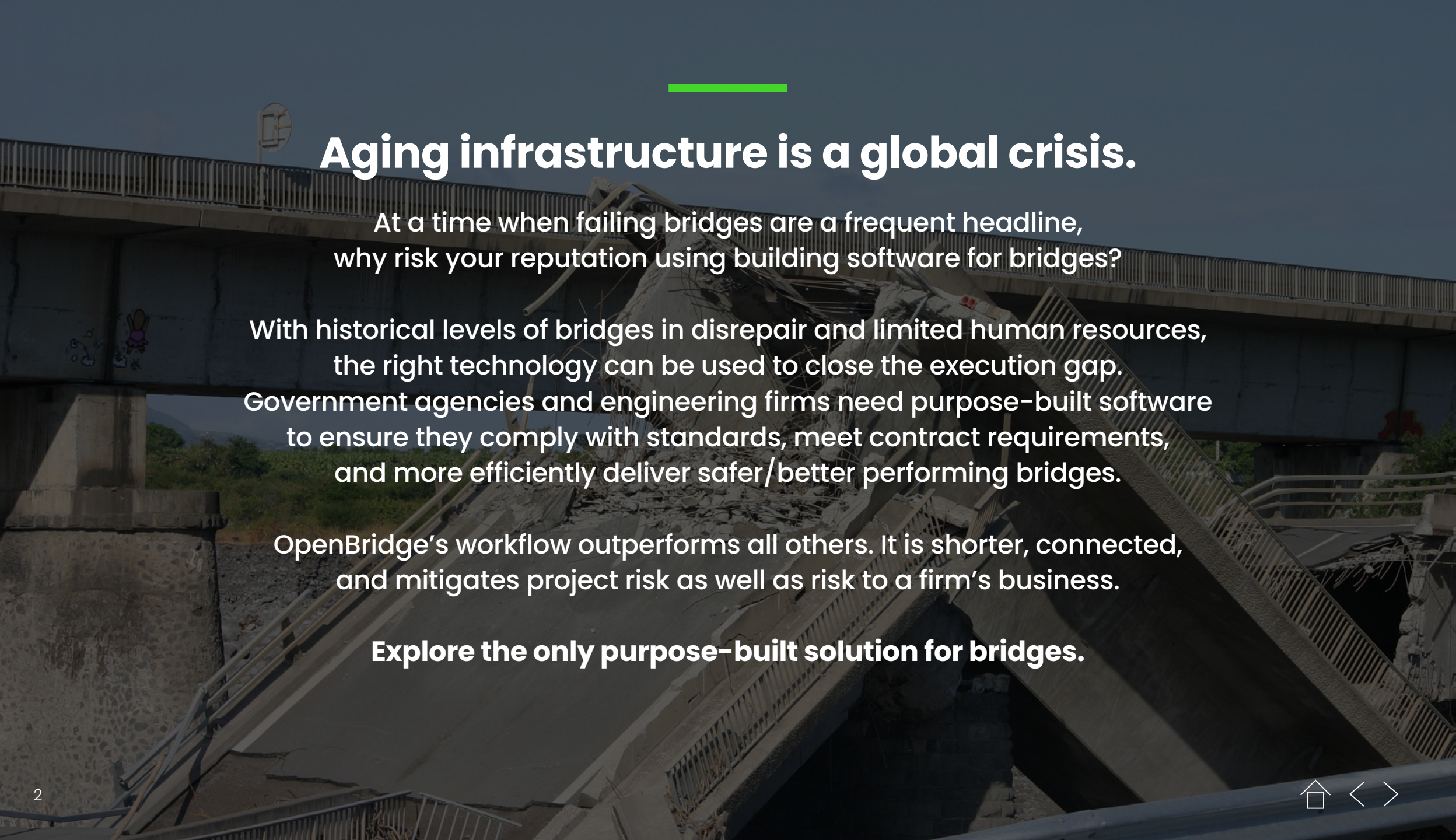
OpenBridge

Software built for bridges *not buildings*

Bentley



Aging infrastructure is a global crisis.

At a time when failing bridges are a frequent headline,
why risk your reputation using building software for bridges?

With historical levels of bridges in disrepair and limited human resources,
the right technology can be used to close the execution gap.
Government agencies and engineering firms need purpose-built software
to ensure they comply with standards, meet contract requirements,
and more efficiently deliver safer/better performing bridges.

OpenBridge's workflow outperforms all others. It is shorter, connected,
and mitigates project risk as well as risk to a firm's business.

Explore the only purpose-built solution for bridges.

You wouldn’t use a spreadsheet to write a letter.

Why use building software to design a bridge?

An application designed for buildings and vertical structures cannot deliver bridge projects on its own. Which means you can’t meet bridge project deliverables, deadlines, or budgets. At least not without investing significant amounts of time and money on workarounds, data translations for inconsistent file formats, custom scripting, and multiple applications.

One Data-Centric Workflow

Simplify project delivery and consolidate your technology stack. OpenBridge is a comprehensive solution for bridge infrastructure. From concept to construction documentation, all the purpose-built features you need are included in one application. No need to monitor the import of civil geometry as OpenBridge is interoperable with OpenRoads and requires no data translations.

One purpose-built application for bridge modeling, design, analysis, detailing, and documentation

- Automated and intuitive bridge design & modeling tools
- Geospatially locate 3D intelligent models
- Responsive change management

Finding skilled workers is hard.

Your technology solution shouldn’t make it harder.

A building solution requires heavy customization and scripting to force it to work for bridge modeling and design. Finding skilled workers is hard. Finding specialists to make it work for bridges is harder. Hiring and retaining those specialists to complete scripting and customization puts firms at significant risk for bottlenecks, project delays, and potential loss of knowledge if the specialist leaves a firm.

Do More with Less

OpenBridge Designer is purpose-built software removing the need for scripting and all obstacles that come with heavy customization. Reduce design time by at least 20% with automated and intuitive bridge-specific design tools. Existing staff can all contribute, eliminating the need for specialists, and multiple applications.

- Intuitive and automated software allows you to do more with your existing staff
- Manual error-prone work is removed
- Overall accuracy and productivity are increased

Working with large datasets is your reality.

Handling them without crashes should be too.

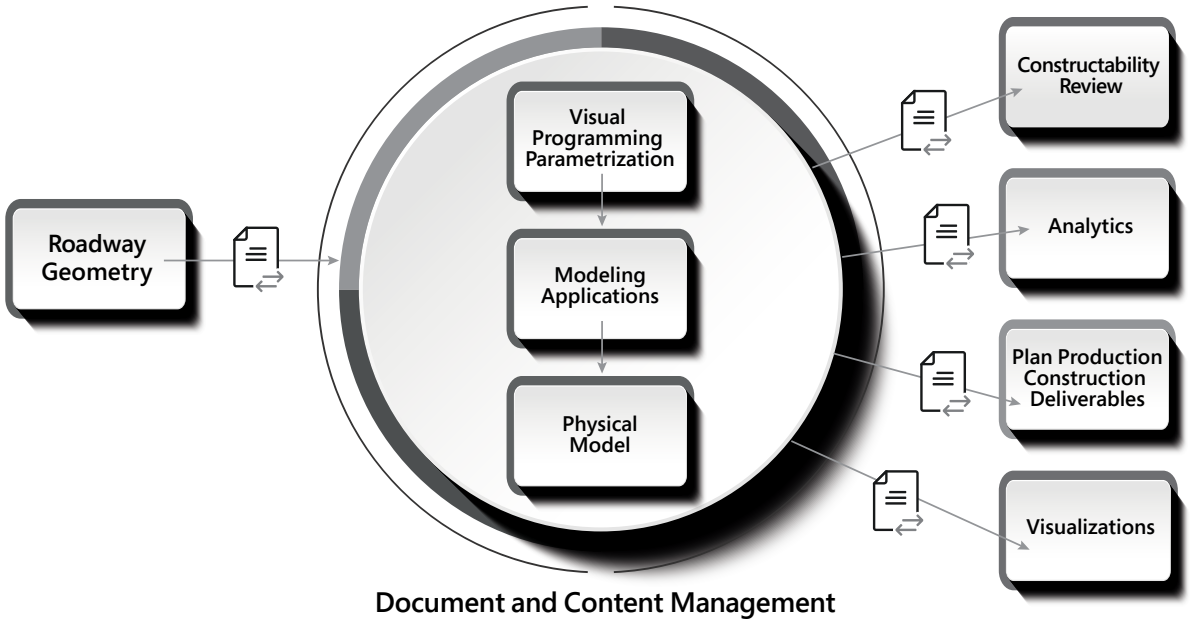
Handling large datasets well is a requirement on multi-discipline projects. When a software application requires repetitive file format exchanges, even within its own family of products, a lack of collaboration, wasted time, and errors are inevitable – and costly.

Open Opportunities with Open Data

Eliminate data silos and leverage large datasets without time consuming format exchanges. See and use everyone's data within your own application. Real-time visibility provides more time to make better and more collaborative engineering decisions early in the design phase.

- Share and consume large datasets across disciplines
- Consistent file formats increase efficiency, improve quality, and accelerate project delivery
- Minimize errors, rework, cost overruns

Building Software Workflow *for Bridges*



= File Format Exchange Required

Bentley Bridge Solution Workflow

OpenRoads

Automated Exchange of Information

OpenBridge Designer

Direct Output

- Constructability Review
- Analytics
- Plan Production
- Construction Deliverables
- Visualizations

The Software You Need for the Way You Work

As engineers, we get it. Your reputation depends on the quality of your bridge designs, so you can ensure safety, innovation, and a project delivered according to plan. There is no time for tedious manual rework and complicated workflows across multiple applications, that are ill-suited for the job. You want to get the job done right the first time.

OpenBridge is everything you need, for everyone on your team, in one application.

VP of Engineering, Bureau Chief, Principal

You need to deliver bridge projects on time and on budget, within the owner's requirements. With OpenBridge that's exactly what you'll do – and you'll do more with less people.

- Accelerate project delivery
- Reduce overhead costs
- Ease labor shortage stress
- Maintain your organization's reputation

Project Manager, CAD Manager, BIM Manager

OpenBridge fully automates the modeling and analytical process for steel and concrete bridges giving you the control you need to scale, collaborate, and comply for an efficient and successful project from start to finish.

- Share and consume large datasets
- Enable real-time collaboration
- Deliver safer and better bridges
- Deliver a bridge digital twin

Engineer, Modeler, Drafter, Designer

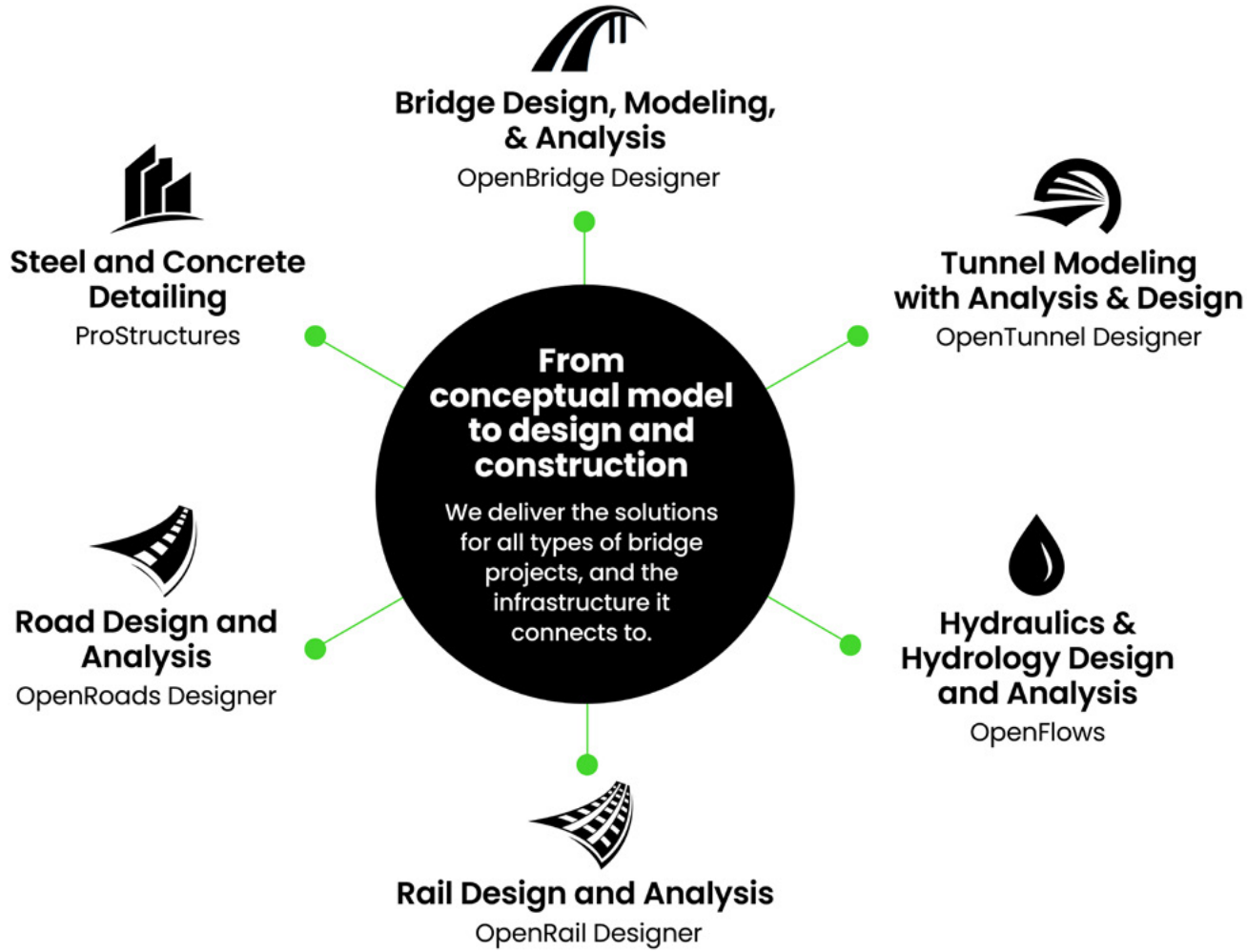
With OpenBridge, you can model, design, and analyze multiple bridge options, implement changes with ease, and meet contract requirements with one data-centric workflow.

- Decrease design time by 20%
- Create a single source of truth
- Automate contract deliverables
- Reuse data for handover to construction and asset operations

The Right Solutions for the Right Job, Right When You Need it

Bentley provides one data-centric workflow with file format consistency, making it easy to take bridge projects from concept to construction. Our hero product is OpenBridge Designer, but because no bridge works in isolation, Bentley provides infrastructure-specific solutions for the design and engineering of the road, tunnel, structures, and all things that connect the bridge to the communities it serves.

By going digital with industry-leading applications, that all work seamlessly together, industry leaders are able to design, build, operate, and maintain interconnected civil projects with more efficiency, accuracy, and innovation than ever before.

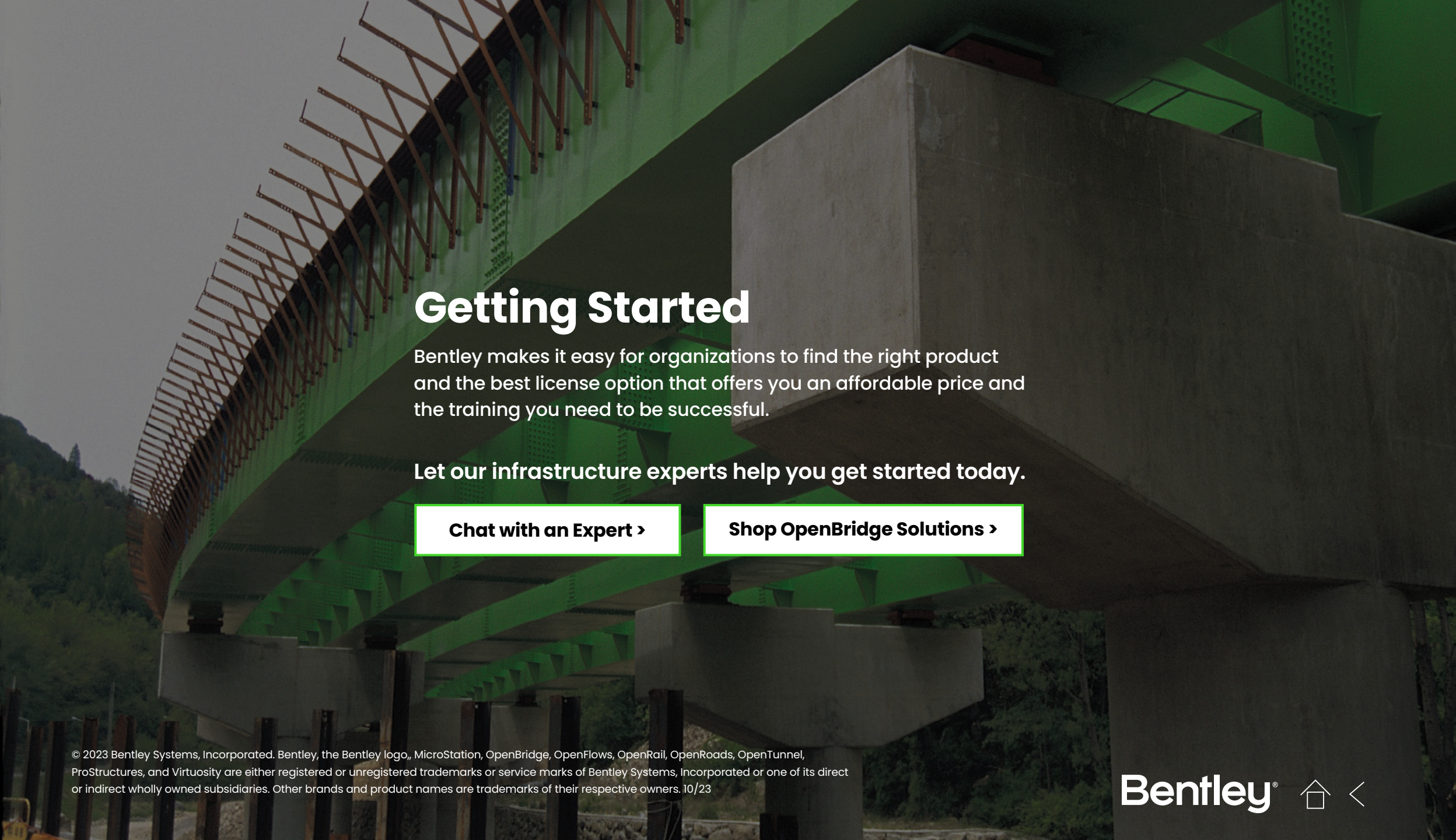


A Partner in Your Success

We draw on 40 years of experience and focus on infrastructure. When other design and engineering software companies might focus on disruption or converging divergent industries, Bentley provides reliable and stable technology, file-friendly formats, personalized support, and license options today and into the future. Experienced bridge engineering experts are available to help new users get up and running quickly with OpenBridge.

Let Bentley be your true infrastructure partner, supporting you every step of the way with:

- New user resource guides
- Robust in-product quick start lessons
- Searchable wiki knowledgebase
- On-demand courses and learning paths
- Formal expert training
- Foundational implementation plans
- Product forums
- Webinars
- One-on-one personalized expert support



Getting Started

Bentley makes it easy for organizations to find the right product and the best license option that offers you an affordable price and the training you need to be successful.

Let our infrastructure experts help you get started today.

Chat with an Expert >

Shop OpenBridge Solutions >

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