CAST Imaging

See inside your applications like you never could before

The Challenge

Today's custom-built applications entail multiple languages, frameworks, and databases. Their growing complexity makes it hard to make even the smallest of changes as developers spend 58% of their time just trying to comprehend the existing code structures.

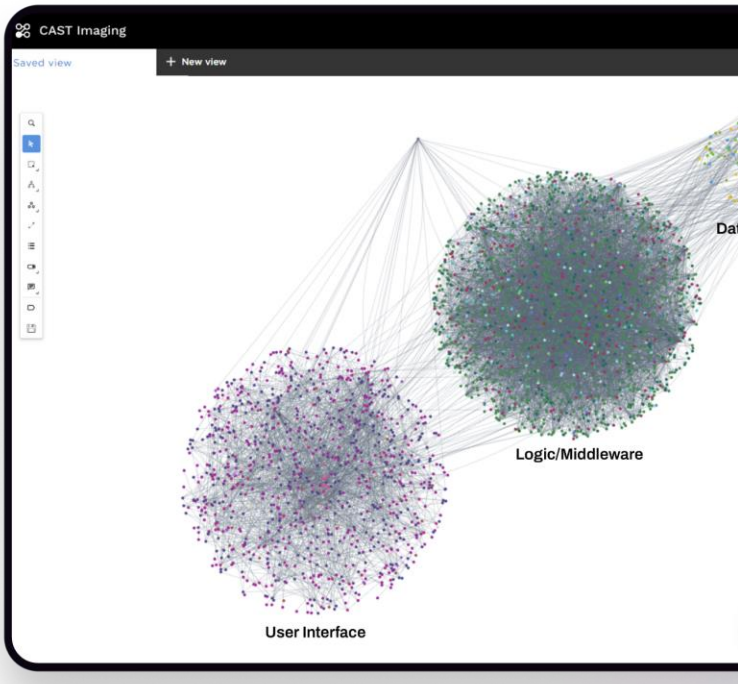
CAST Imaging

Automatically 'understands' how software work. It visually maps the tens of thousands of code elements and all their relationships into a living knowledge base of the software internals, helping architects and developers navigate the application and quickly find what they need.

Key benefits

Software-intensive companies and system integrators use CAST Imaging to preserve key knowledge, accelerate newcomer onboarding, speed up ongoing maintenance, de-risk modernization and cloud refactoring.

- **15% greater** development speed and efficiency
- **25% faster** modernization and optimization for cloud
- **35% faster** ramp-up of newcomers



kyndryl

I can see in minutes what took three months to find before

David Ruggiero

Modernization & Cloud Advisory Leader

Faster ramp-up of newcomers

New teammates can quickly learn the application make up, navigate the internal structures, understand the e2e transactions, and literally see all dependencies, without relying on experts or figuring it out on their own. Becoming fully productive much faster.

Less time spent making changes

Developers can quickly determine the impact and effort required to make changes or add new functionality, without extraneous consultation or research. They can easily share with others working from anywhere, raising the speed and efficiency of delivering changes.

Safer and faster modernization

Architects can quickly delve into legacy applications, understand existing and to-be architectures, visualize data access and API call graphs, find objects affected by database or framework replacement and candidates for decoupling or microservices. Avoiding dead-ends and wrong turns.

Automatic knowledge retention

As experts come and go, teams can retain detailed, up-to-date system information for documentation, compliance, and emergency purposes. They can even tag objects and link documents to easily keep track of the logic behind major changes, preserving critical technical knowledge.

CAST Imaging

Case Study: Greater responsiveness and efficiency

LTIMindtree

Challenge

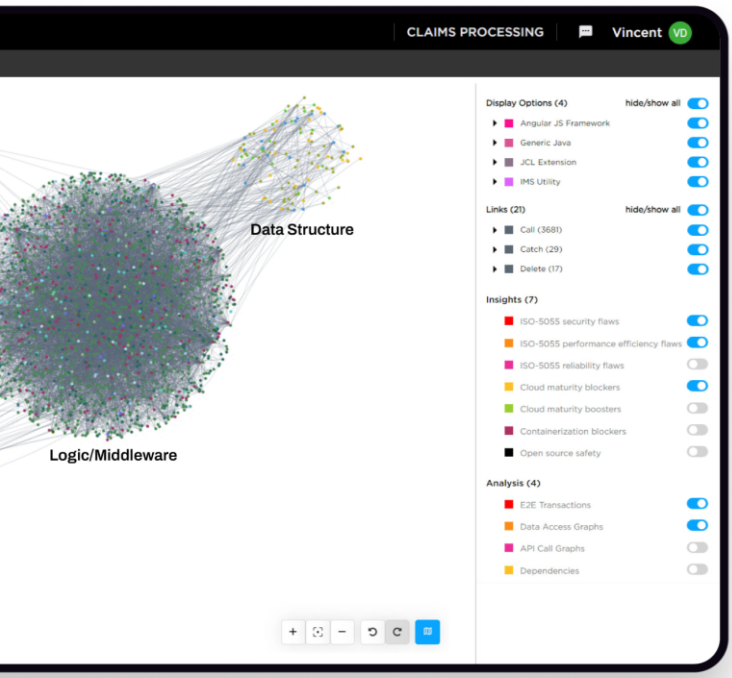
LTI was transitioning two extensive projects with about a hundred applications to take over maintenance and support. Development teams were spread out and could not work all together at the same place sharing knowledge.

Solution

LTI armed all teams on the projects with CAST Imaging, which automatically created a living knowledge base of the software internals. The architects and developers were able to discover, navigate, and understand all the mechanics of the applications on their own.

Results

LTI measured **20 to 30%** reduction in knowledge transition time for those using CAST Imaging. That was followed by a decrease of rework and coding effort **by 30 to 40%.** In addition, due to precise identification of impact of changes, defect density dropped by **20 to 30%.**



Key Capabilities

Understands any mix of 150+ technologies. Provides knowledge persistence, exports, REST APIs.

Analysis

- Data access and API call graphs
- Data flows between objects
- Calls between objects
- Indirect paths between objects
- Impact of changes
- Framework dependencies
- Database dependencies
- Candidates for decoupling
- Candidates for microservices
- Architecture design adherence
- Cloud optimization blockers
- Open-source components risks
- Major structural flaws

Auto-discovery

- All technologies used
- All data objects and structures
- All code objects and properties
- All frameworks used
- All explicit and implicit dependencies between data, code, frameworks, across all technologies

Navigation

- Zooming in and out, down to a line of code
- Five layers of abstraction
- Logical groupings
- End-to-end transactions
- Intra-application dependencies
- App-to-app dependencies
- Single search across the entire application
- Natural language object explanations

Collaboration

- Tag objects against business function
- Annotate and group objects
- Place documents in context
- Create, annotate and share custom views and functional maps