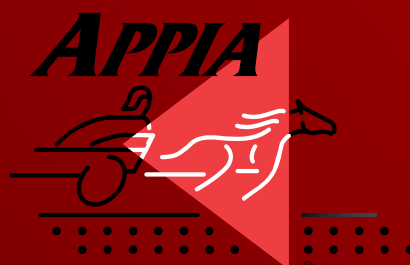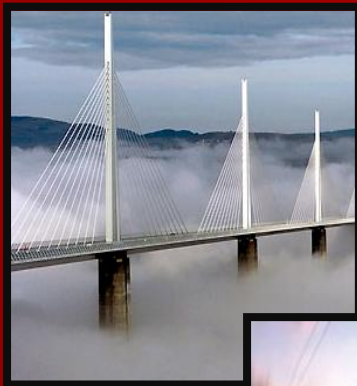# Transportation Investment

Oversight & Management
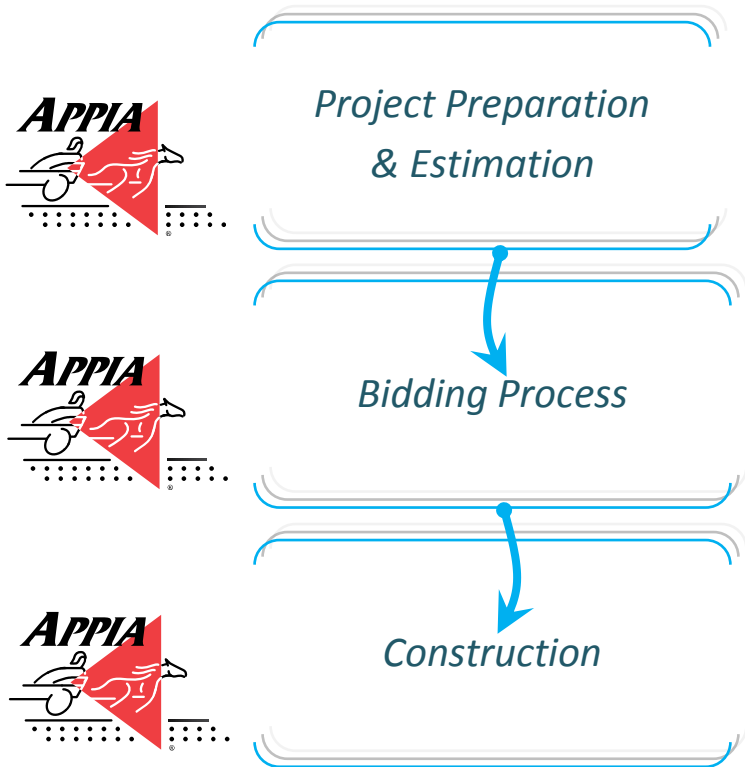

APPIA

Solutions

A World Class Solution

APPIA

Web-based solution for local, national and international agencies, investors and ministries of transportation allowing complete investment lifecycle management.

Complete Lifecycle Management

APPIA

Project Preparation & Estimation

APPIA

Bidding Process

APPIA

Construction

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Who Benefits

EU Agencies, Investors & Lenders

Monitor, in real-time, investment progress and how money is spent. View portfolio status from global dashboards to individual project elements. View budget spending projections and trend analysis.

Ministries of Transportation & National Agencies

Monitor, in real-time, the entire portfolio of projects across the country. Compare projections to actual spending.

Regional/Local Administrations

Monitor regional portfolios at multiple levels. Problem areas are flagged. Bid letting process is supported by elaborate bid analysis and optional Internet bidding.

Project Managers

Project managers see daily project progress in aggregate and in detail in order to respond to issues quickly. Various project queries and reports are available instantly.

Inspectors and QA Engineers

Inspectors and project engineers update daily progress including pictures and work conditions.

Administrative Personnel

*Paper-based manual work is reduced or eliminated. System checklists guide the processes and prevent errors.*

enfoglobe™
Innovative Technologies

Local, National & International Agencies

Appia and Bid Express are web-based solutions allowing complete investment lifecycle management and oversight of agency-funded projects.

Reporting is aggregated at many levels for an accurate picture of all activities at a glance. A quick look at the Executive Dashboard in Appia gives a clear picture of progress and issues of all projects in the program.

The following illustration depicts licensing configuration, where all TEM member countries are using Appia for the project management, thus allowing for automated real-time reports at the top EU and EIB levels.
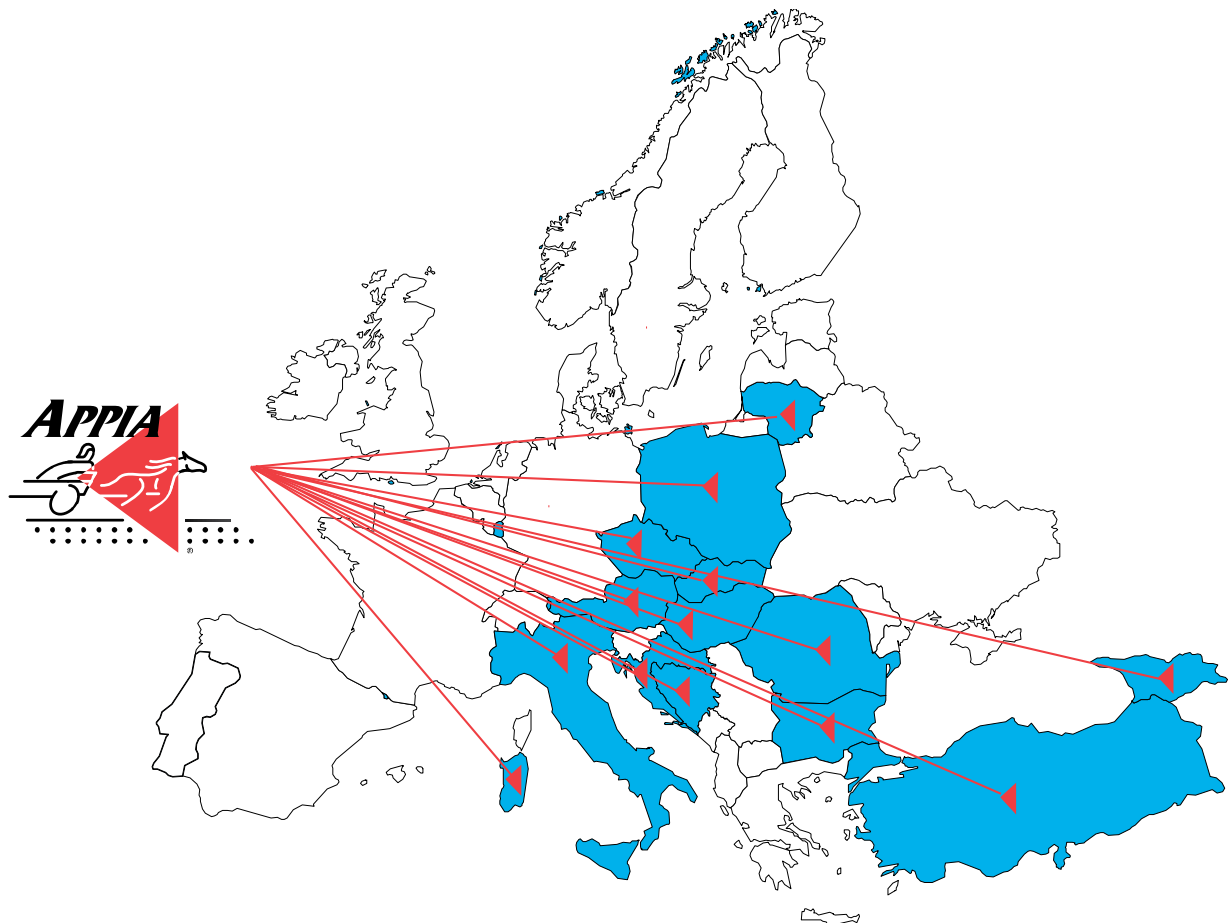
Appia and Bid Express Benefits Highlights

Opportunity for a uniform solution across the EU*. Systems have a generic business core and are easily customizable by local administrators. Appia and Bid Express can be adopted by all new EU members as a standard, which would lead to aggregate savings in the EU program.*

Management systems matching EU needs. *Construction project in Rzeszów, Poland used Appia and demonstrated a close match to the EU needs.*

Higher program transparency*. Issues are detected and addressed by lending institutions, EU oversight officials, directors, and managers early in the process. Appia encourages daily reporting and ensures essential project information is readily available for program stakeholders.*

Higher efficiency in construction oversight*. Higher efficiency results from uniform practices and automated processes including estimation, elimination of bidding errors, efficient bid letting, collection of progress, and streamlined payments.*

Real-time information for effective decision making*. All information is uniform in a central database. Project and portfolio managers access real-time progress by using a web browser, without relying on manually prepared reports that can be error prone, outdated, or incomplete.*

Ease of administration and training*. The entire functionality is located on a central server. Software updates are transparent and extensive context sensitive help is built-in.*

Return on Investment

Proven Solution

Based on our assessment of European countries during the last ten years of collaboration, Appia and Bid Express closely match the needs of the entire lifecycle of road construction. Our customers in the US, using a similar system tailored for local needs, have realized significant annual savings by removing paper processes, eliminating bidding errors, fast construction progress and payments, quick decisions and increased throughput in administration.

Construction Monitoring Success Story

Michigan Department of Transportation (MDOT) realized award winning savings from automating construction management solutions. The results were validated by an independent auditor.

Significant return on investment. *MDOT saves $28.5 million a year, equivalent to 2 percent of their construction budget, just by employing the automated construction management phase.*

A 40 percent reduction in administrative staff. *Forty percent of the staff was reassigned to other tasks, and the remaining 60 percent was able to manage a larger portfolio without additional administrative costs.*

Three times bigger budget without additional administrative costs. *MDOT's budget expanded from $500 million to over $1.5 billion without the need to employ additional staff. Standardization can be realized at all organizational levels.*

Reliable support. *Dedicated Info Tech support staff responds quickly to changing requirements, at the agency level or construction field.*

Internet Bidding

Internet bidding with legally acceptable digital signatures can be integrated with Appia. In the US, Internet bidding in construction industry is used by 35 state agencies with over $100 billion in bids managed by Info Tech on-line bidding system. Over 5000 contractors bid using Info Tech service and watch bid opening via the Internet.

Agencies benefit *from lower administrative costs and increased competition. Emergency projects are advertised and let in minimal time.*

Bidders benefit *from much lower administrative cost and more bidding opportunities for remote locations.*

Investors benefit *from more effective fund utilization.*

Bid Letting Success Stories

Michigan DOT *opened 661 bids totaling $1.4 billion in a single bid opening.*

In Iowa*, an unexpected bidder submitted a bid over the Internet for $8 million less than any other bidder.*

Wisconsin *saves 48 man-hours per bid letting using Info Tech's Internet bidding*

In Oklahoma *an emergency project was posted, advertised, and bid in 48 hours; it was bridge emergency work*

Web Solutions

Just a Web Browser

Appia is web-based online service, and available from anywhere there is Internet access. All the users need is a web browser to access the full power of Appia.

They run completely in a web browser and require no installation or administration of any kind for the end user.

Reflects Investment Lifecycle

Portfolio of projects in all phases of the lifecycle is visible at a glance providing instant situation overview. Each project can be accessed and examined with just a click of a mouse button.

Executive Dashboard

The Executive Dashboard view flags issues and marks progress at high level. Project assessment criteria are customizable for each user.
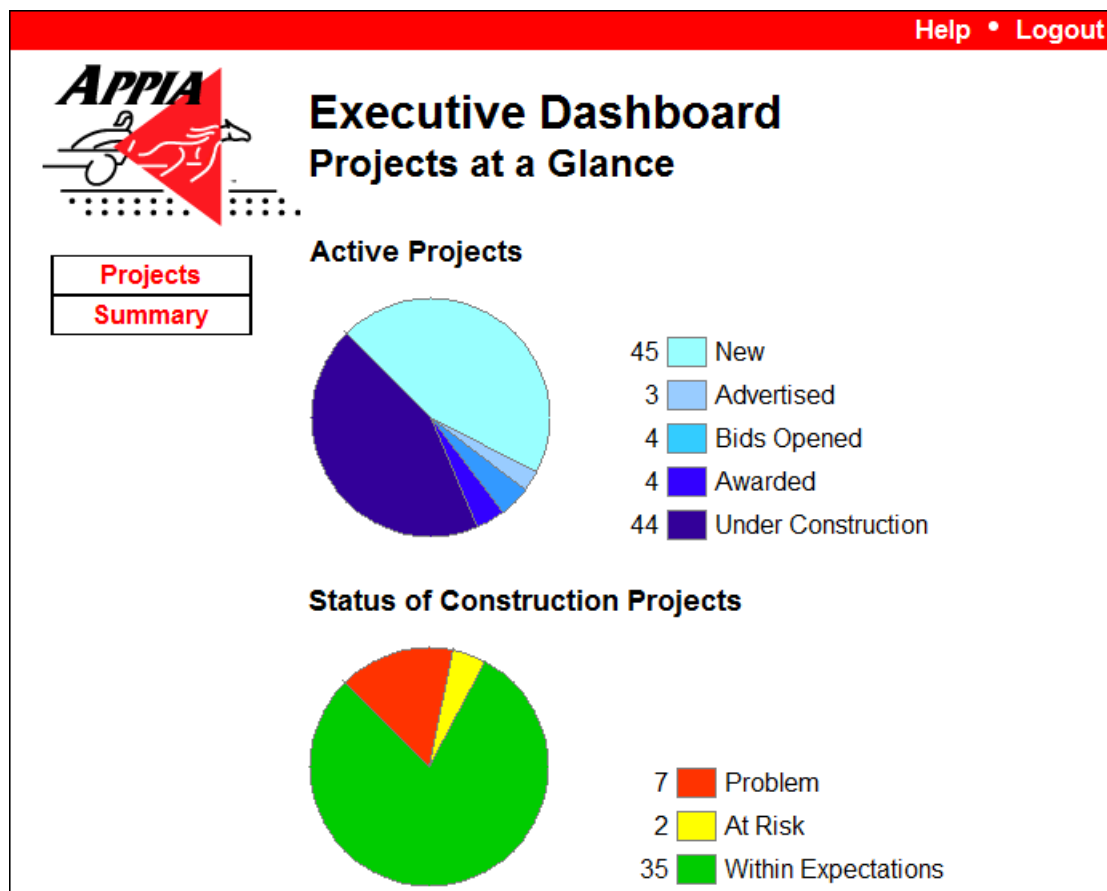
Ongoing Collaboration with Europe

Info Tech and Enfoglobe have been actively engaged in understanding customer needs in Europe. We have collaborated with the European transportation ministries and administration for 15 years.

Since 1995, we have visited and presented to 12 Trans-European Motorway (TEM) project countries at their ministries and TEM steering committee. We have participated annually in the International Highway Engineering Exchange Program (IHEEP) and HEEP V annual meetings in Europe.

Info Tech has discussed construction monitoring needs with these countries.

- *Poland*
- *Slovak Rep.*
- *Czech Rep.*
- *Hungary*
- *Lithuania*
- *Sweden*
- *Romania*

- *Austria*
- *France*
- *Germany*
- *Georgia*
- *Turkey*
- *Switzerland*

- *Russia*

Info Tech presented to the UNECE Transport Division at the TEM Steering Committee Meeting and received strong interest and endorsement for standardization and unification concept via Appia and Bid Express solutions.

Info Tech presented to the EIB bank officials in Luxemburg and Warsaw and received strong endorsement for employing Appia as vehicle for better budget and progress monitoring and reporting.

Info Tech has also presented to the European Commission a vision of a unified model for construction monitoring across the EU countries.

There is a great need for comprehensive monitoring and control of the budgets and work progress across the Europe. Leveraging existing expert applications can bring a strong long-term ROI and a better cohesion of transportation administration processes across the Union.

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About Info Tech, Inc.

Info Tech is a consulting, integration and software development company based in Gainesville, Florida. The company has over 32 years of industry experience in transportation construction management. It is the designer and owner of Appia as well as the primary contractor supporting the Trns•port® suite of software products owned by the American Association of State Highway and Transportation Officials (AASHTO).

More than 42 state transportation agencies, several hundred cities and counties, two foreign countries, and thousands of engineering consulting and highway contracting firms use Info Tech developed and supported software.

Info Tech's team of over 150 staff members provide customer-oriented consulting, software development, systems integration and network communications services. Info Tech staff have significant experience in providing these services throughout the US, Canada, and most recently in the Philippines.

Info Tech has been in continuous business as a statistical analysis, consulting, and software development and services company since 1977. The Statistical Analysis Division is frequently called upon to assist transportation agencies in analyzing data to provide bid, market, and competition advice.

About Enfoglobe, Inc.

Enfoglobe provides specialized solutions for managing transportation construction administration in 41 European countries as well as custom software solutions for legal and scientific industries. Our network of global collaborators enables fast and affordable results. Enfoglobe's professionals, with 20 years of leadership and technical experience, provide a full range of services, from design and development to implementation, training, and strategic planning. We have offices and partners in across Europe.

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