



# GE Digital Energy

Realworld Customer Day 2014

# Smallworld Core



# Stagikworld5a



# Goals of Smallworld 5



Modern technology stack based on the Java Virtual Machine



Improved performance and user experience



Simplified integration and interoperability



Straightforward upgrade



# Performance

Many benefits from adopting the Java Virtual Machine:

- Multi threaded execution, 64 bit processing
- Self-optimising compiler
- Java performance and profiling tools available
- Benefits from Java to Java integration
- Google Maps rendering several times faster

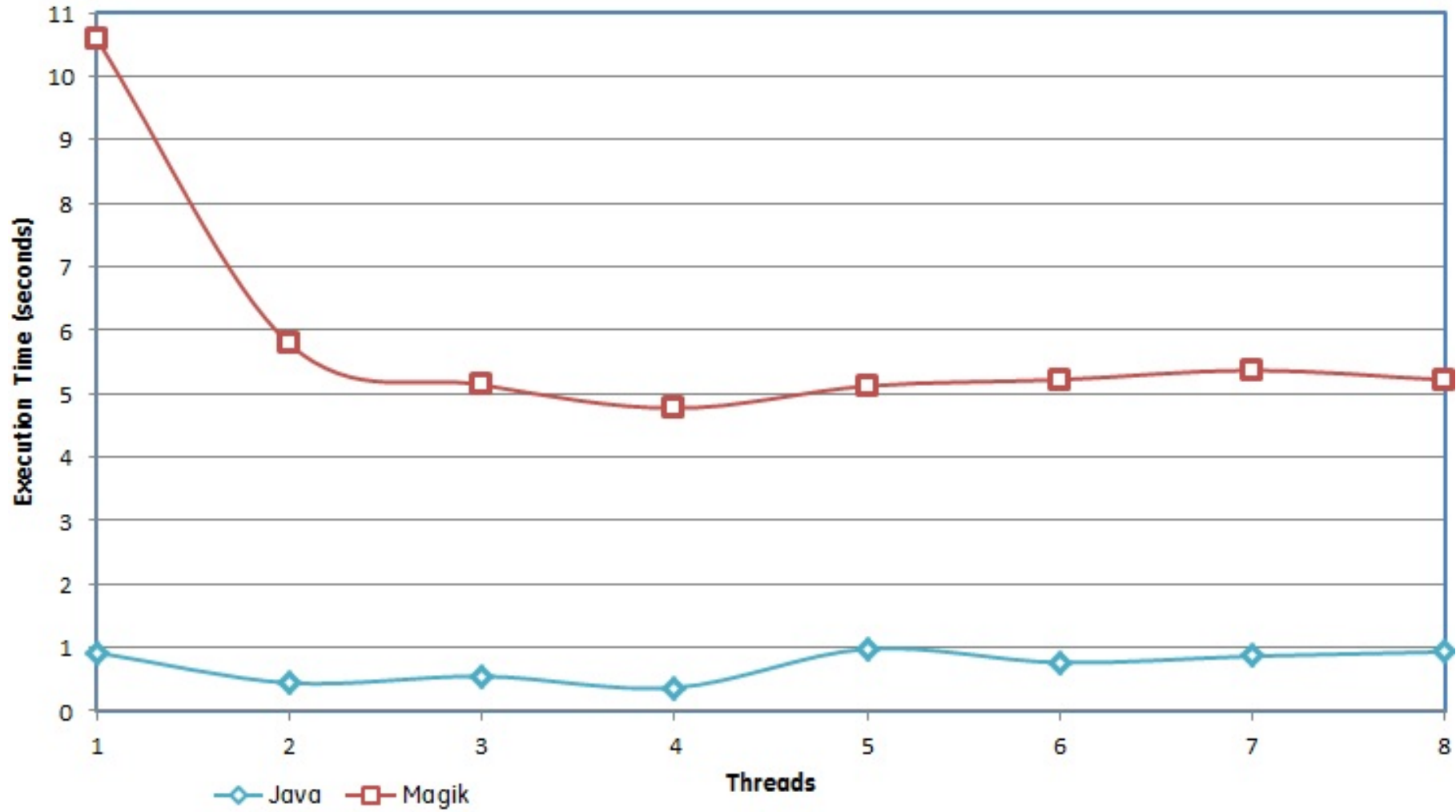


Updated SWMFS for Unix platforms

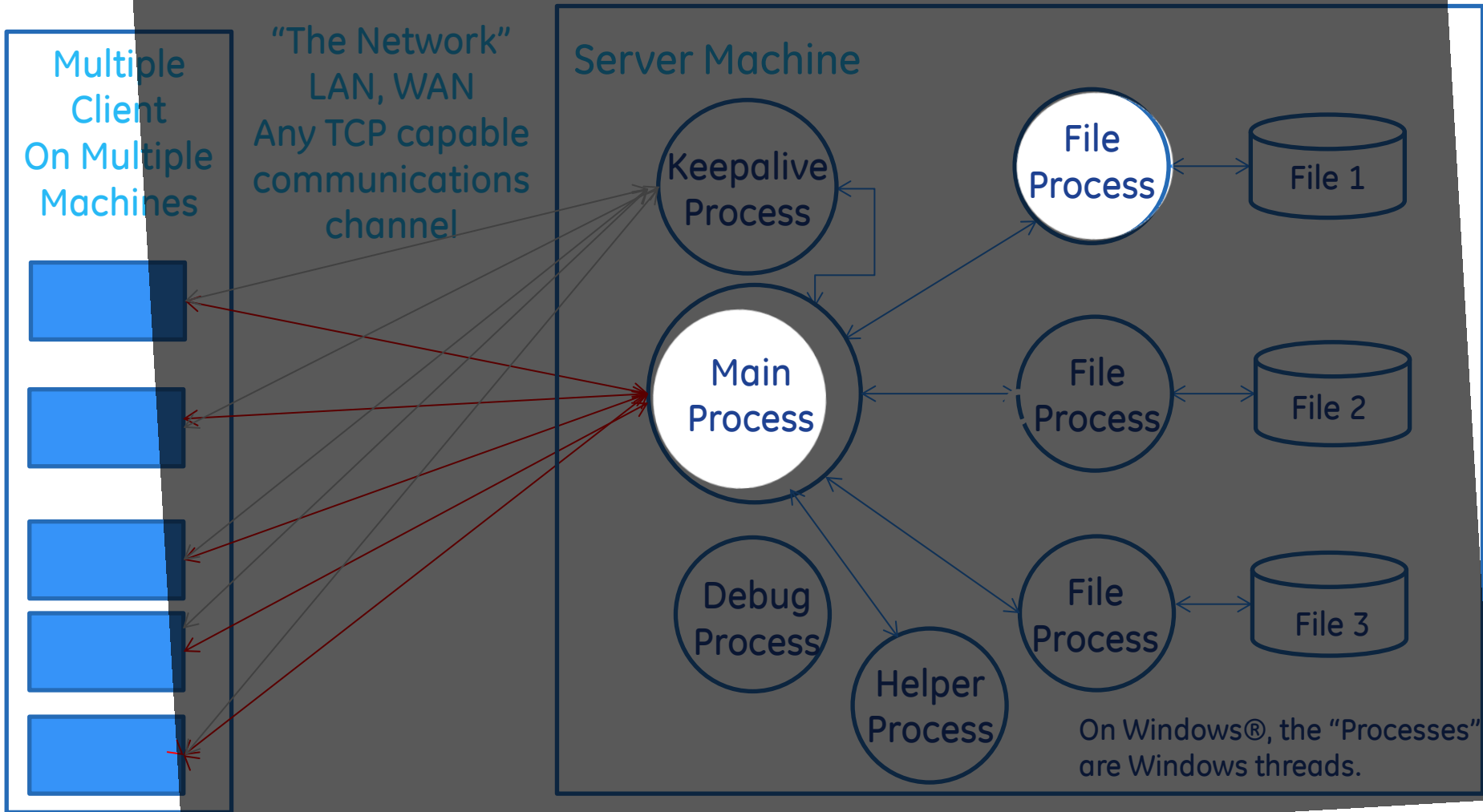
- Improves datastore performance
- Move from multi-process to multithreaded architecture
- Unix and Windows versions are part of Smallworld 5
- Available in Q3 2014



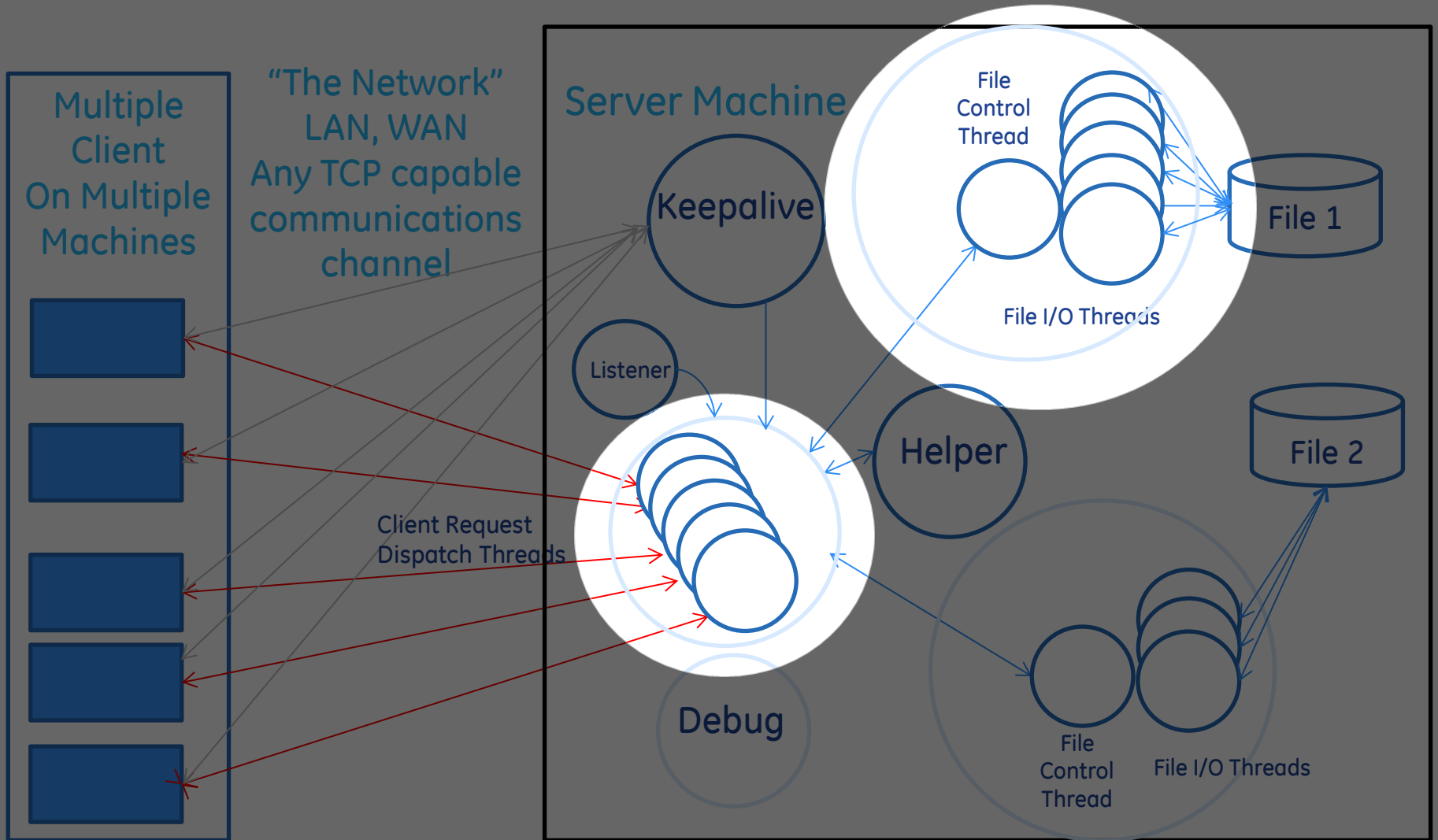
# Performance compared to existing VM



# Current Swmfs Structure Simplified



# New Multithreaded Swmfs Structure





# Integration and Interoperability

Reducing the cost of ownership:

- Availability of existing Java libraries
- Simplified integration, e.g. Java to Java
- Standardisation on HTML 5 for web and mobile

Preserving your existing investment:

- Applications can still be written in Magik
- Existing SWAF applications supported
- Extends GE's open architecture policy
- Web services capabilities extended



Industry leading technology for many years into the future  
Reduced cost of ownership by adhering to open standards



# User Experience and Visualisation

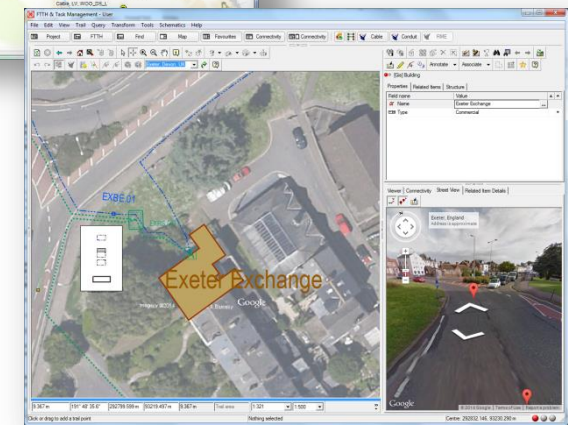
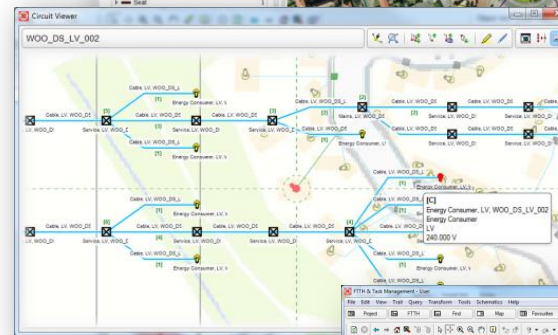
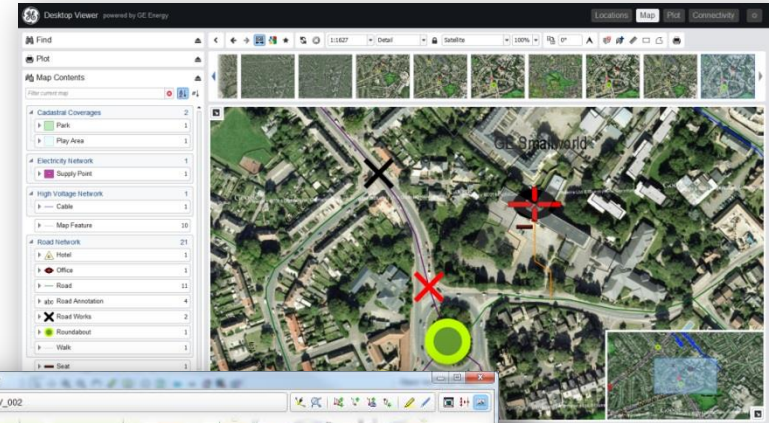
## Smallworld User Interface Toolkit:

- Foundation of a modern user interface
- Successful customer trials
- Adopted or emulated across Smallworld 5



## GE's global Google partnership:

- Google Maps, Streetview and Address Search
- Available on desktop, web or mobile applications
- Fully integrated with the map



# Upgrade and Deployment

GE's objective is to support smooth and successful upgrades to Smallworld 5

Between Smallworld 4.3 and 5.0 there will be:

- Minimal data model or API changes
- Minimal functional changes
- Preview program enabling hands on experience

The Smallworld 5 portfolio will be available in Q2 2015

Pre-releases will be available, upgrades can start immediately...



# Smallworld 5 Demo



# Tooling



Upgrade tools

Code compilation software tool

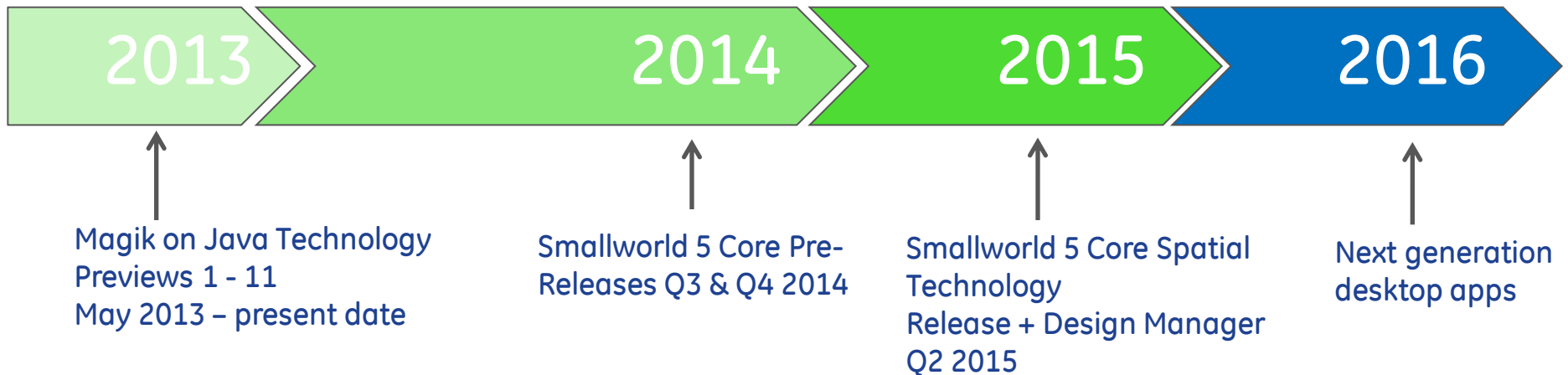
SWIFT widget assessment tool

SWIFT emulation assessment tool

# Detailed Roadmap

## Smallworld 5 Desktop

- Magik code on Java 7 runtime
- Native Java interoperability
- Increased magik language execution performance
- Enhanced SWIFT user interfaces: Desktop Viewer
- Prerelease Professional applications running on Java runtime
- SWIFT emulation of existing user interface classes
- SWMFS performance and scalability improvements Smallworld 4.0+
- Java 8 runtime
- Direct-to-PDF printing
- Product portfolio running on Java runtime
- Discrete workflow apps for engineering productivity
- Extend Java Development



Dates and content subject to change

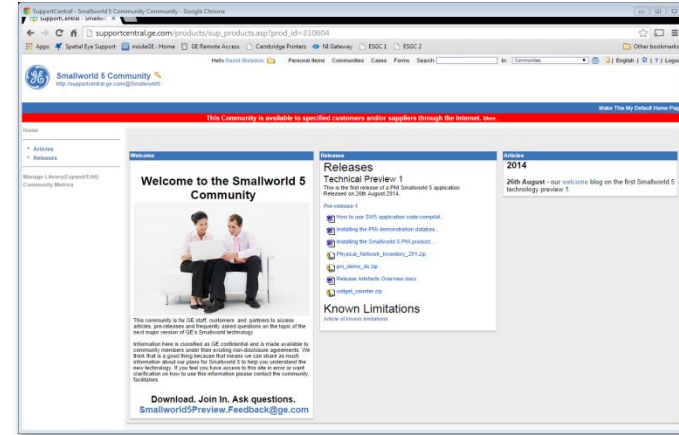
# How can I find out more about Smallworld 5?

You can access the technology and participate by requesting to join the Smallworld 5 Preview Program:

- Give your details to the GE team at this conference
- Or email [smallworld5preview.feedback@ge.com](mailto:smallworld5preview.feedback@ge.com)

The Smallworld 5 Preview Program will have:

- Regular releases of a small focused desktop application
- Strong emphasis on user experience
- A community of people exercising the new technology
- Direct communication with the product team
- Answers to frequently asked questions



Download today. Ask questions. Join in.







