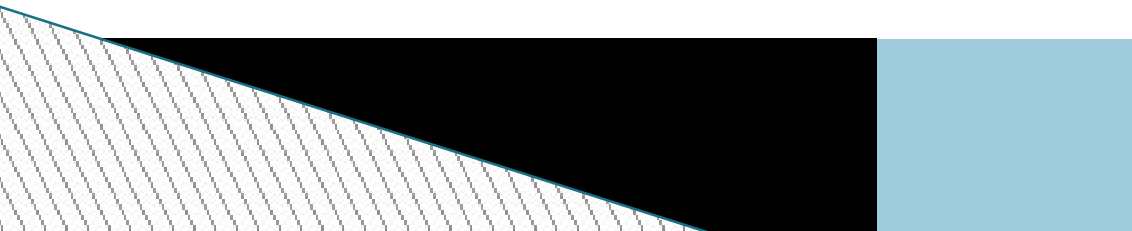


Caché User Group Benelux

November 28th, 2013

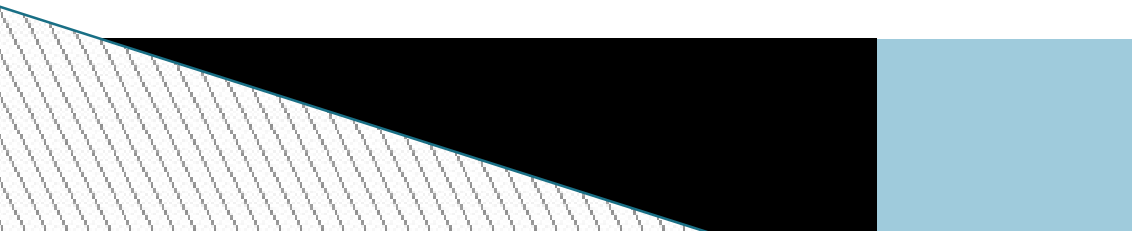
Agenda

- Welcome
- Meeting overview
- Build Rich Internet Applications with Caché
- Development tools for Caché
- Demo's and round tables
- Closure / informal discussions



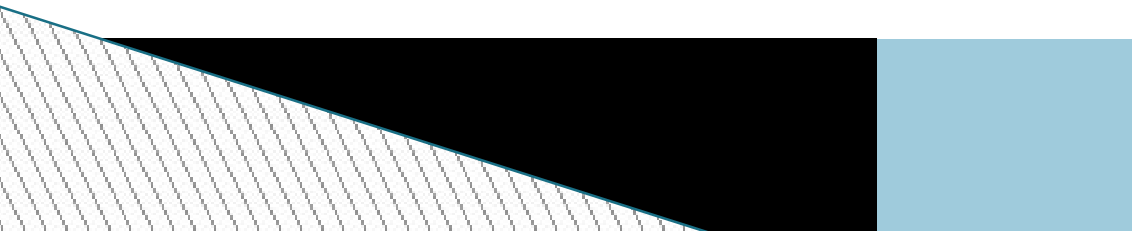
Welcome

- Actual status
- Interaction with the CUG: new website (blog)
- Purpose of this meeting: overview of development platforms and tools
- CUG is the place to show, exchange & discuss new ideas & approaches to development




Development frameworks

- Essentially two approaches:
 - Client-server
 - Rich Internet Application (RIA)

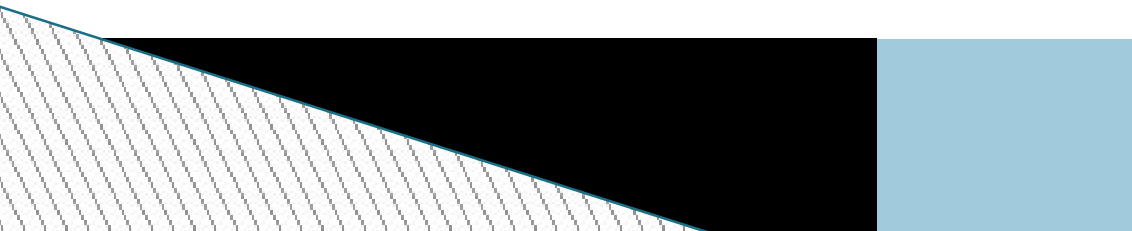


Development: client-server

- Applications installed on a client-pc, written with development tools generating native code
 - Broad choice of tools, e.g.:
 - Windows: Visual Studio
 - iOS: Xcode
 - Android: SDK/ADT/Eclipse
 - Cross-platform: RAD Studio XE5
 - Cross-platform: Java (Eclipse WindowBuilder Swing/SWT)
 - Plugins sandboxed in browser: Flash / Flex / Silverlight
- 

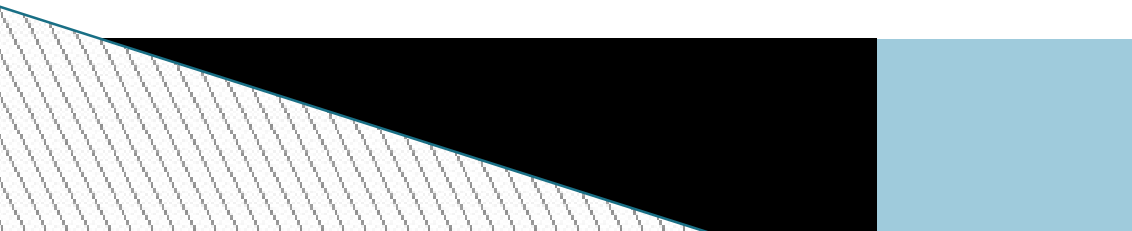
Development: client-server

- Tools either generate native code or work with a runtime engine, e.g.:
 - C++: native code
 - .NET: running in a CLR on Windows
 - Java: running in the JVM
- GUI control libraries for most development tools, very extensive feature set



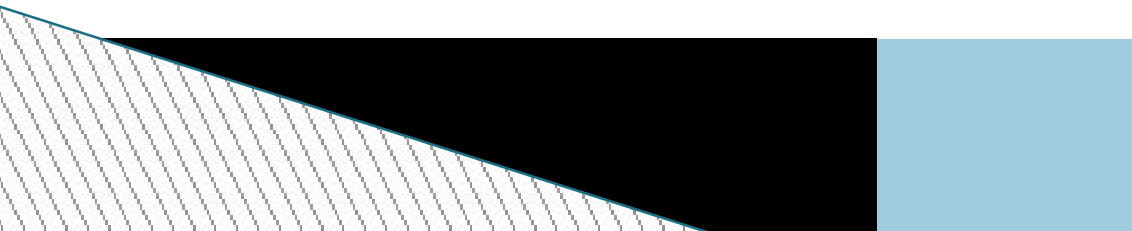
Development: client-server

- Advantages:
 - Native, fast code
 - GUI can use latest graphical OS features
 - Direct access to the hardware
 - Most complete feature set for OS-specific GUI design
- Unfortunately ... not only advantages!



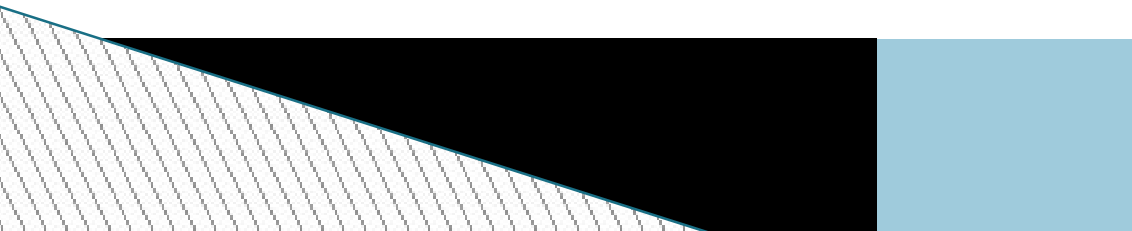
Development: client-server

- Disadvantages:
 - Setup needed for every client + updates
 - If you use .NET or Java, no “real” native code anymore
 - OS-specific development, many code versions and builds needed (+ x86/x64)
 - BYOD is a big challenge: you'll need versions for Windows, iOS, Android, ...
 - ...



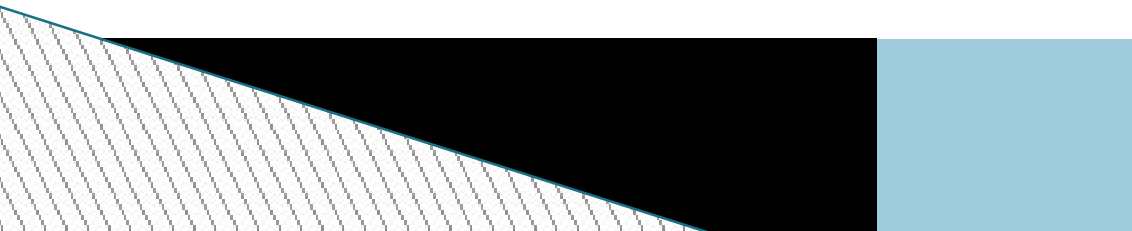
Development: RIA in browser

- HTML5 is there: are RIA's the best choice for today's development?
- Many challenges:
 - Browser versions
 - Different languages needed for front- and back-end (HTML, JavaScript, COS)
 - Desktop GUI not easy to design in HTML (document oriented language)
 - No access to hardware on the client
 - ...



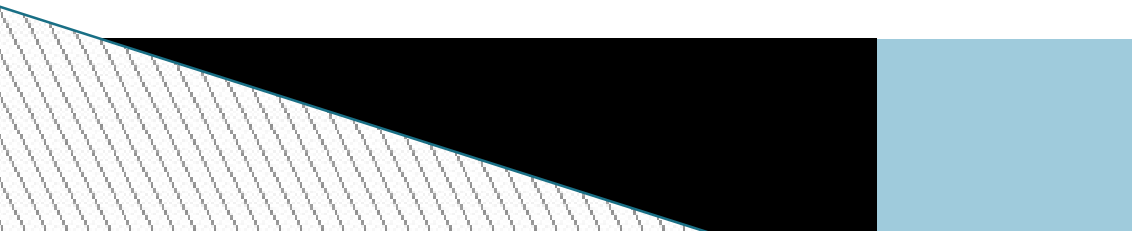
Development: RIA in browser

- Look for the tools that fit the job
- Many pitfalls – think before you code!
- Integrated platform needed that reduces coding to application-level, not system-level
- Take advantage of the latest HTML5 features!



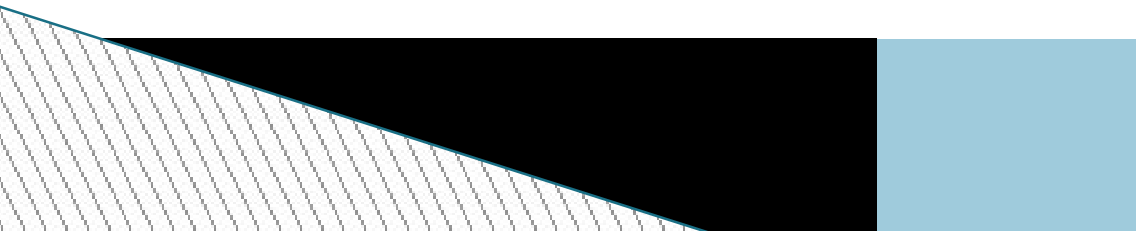
Development: RIA in a browser

- Default choice for Caché: Zen framework
- Today: Enterprise Web Developer (EWD) web development platform
 - Integrates with standard GUI control frameworks using XML-tags
 - Principles: page fragments, page setup & action code
 - Separation between GUI & business logic



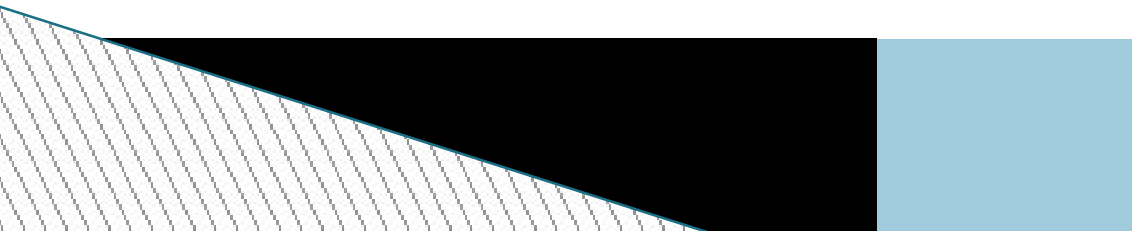
Development: RIA in a browser

- Latest version of EWD (today's demo)
- EWD.js: new, revolutionary approach you'll see in the next presentation from M/Gateway Developments
- Build your applications using only JavaScript!



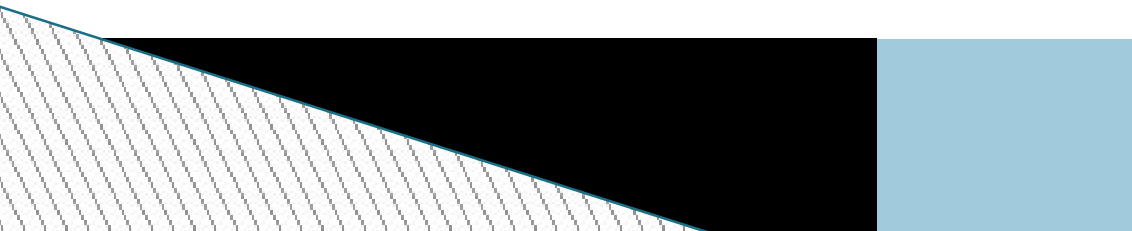
Development: tools

- Caché development with Studio is working well
- Studio's toolset can be further extended by adding e.g. version control using built-in Studio class hooks, but this has to be coded
- Why would you reinvent the wheel when it exists?



Development: tools

- Third party tools from George James Software you'll see will enhance further you development experience with Caché for:
 - Debugging
 - Modelling
 - Version control
 - Code analysis, optimisation, refactoring
 - ...



Caché User Group Benelux

See you at the next meeting!
Thank you!

