

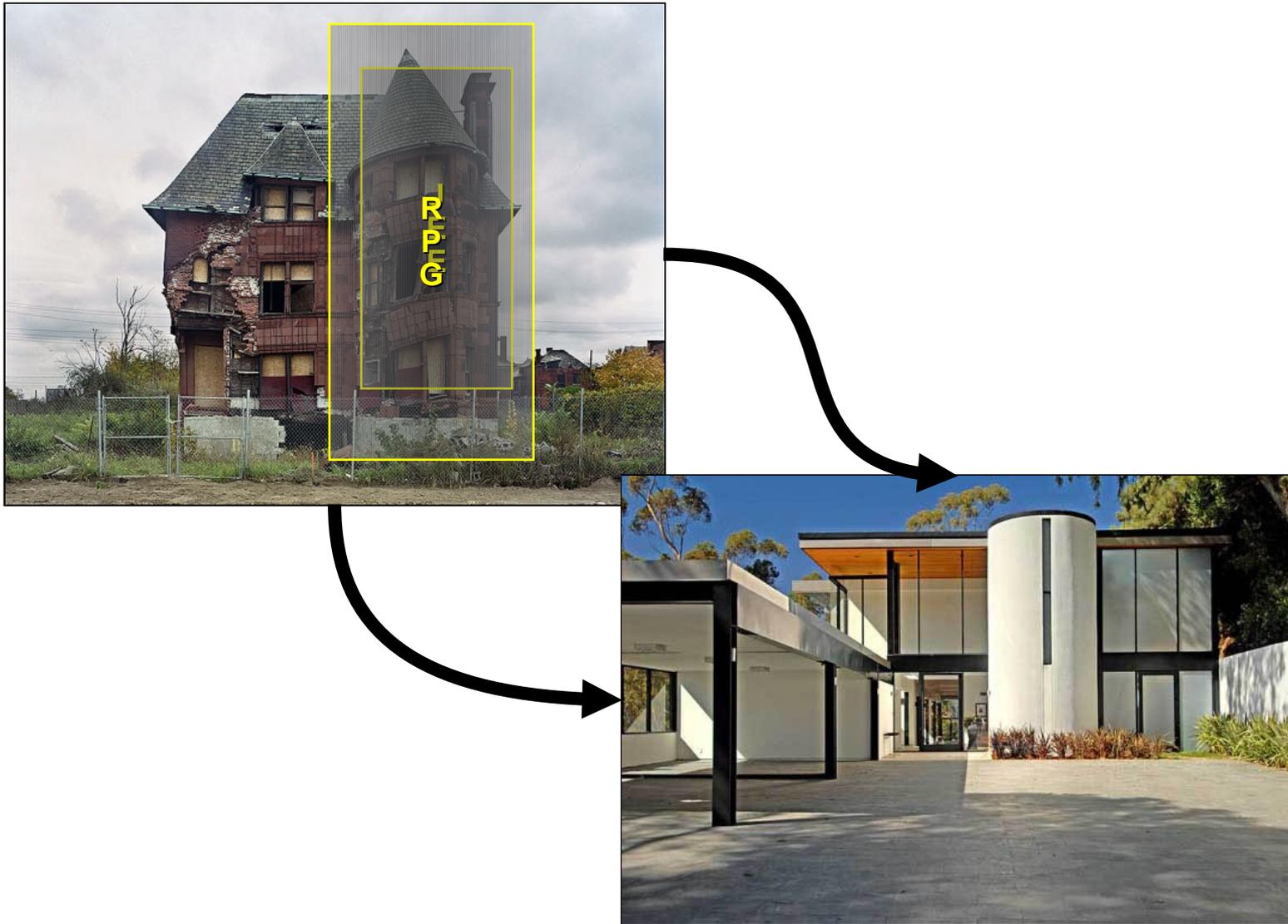
IBM Software Group and Avnet

# Application Modernisation Update – an Introduction to IBM's Approach

Pat Flisher  
IBM Rational

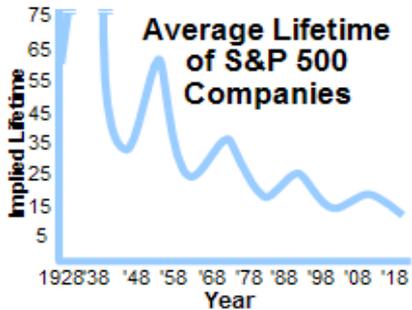
**Rational.** software





# IT & Business Executive Pressures

## Enable Innovation & Change



Increased competitive pressure to change and adapt while IT has an increasing role in every business process

*What IT wants to do!*

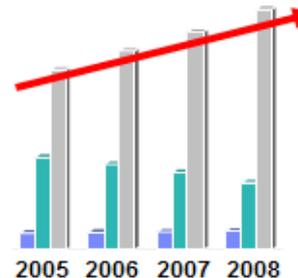
## Enact Compliance Mandates



The changing global regulatory and business environment requires security, privacy and ongoing audit capabilities

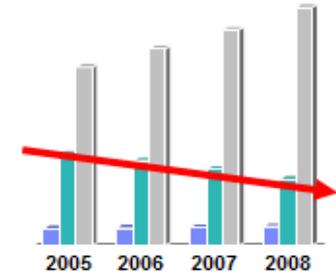
*What IT must do!*

## Rising Cost of Operations



Operational costs continue to grow at 10% CAGR ... twice the rate of the IT budget. The cost of failed projects & rework compounds the problem

## Inability to Innovate



Application development & support budgets are shrinking at nearly 10% CAGR dropping from 50% to about 35% of total IT labor spend

**Bottom line: IT flexibility enables business flexibility**

# Approach to Application Modernisation

IBM Rational's Approach to Application Modernisation

## IBM Rational's Approach to Application Modernisation

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 V2.2 dated 10 May 2011

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to Application Modernisation

Application Modernisation

... have been in use for a period of time including organisations have old applications that are business is concerned and are fast becoming too too much of the organisation's budget goes on the allocation of resource to development of systems

... purchase one or a series of Application Packages. If yes, with the ERP being the start point but impact of such purchases and the scale of investment.

At least ensure that the end users have a standard ranges to the overall user experience.

Effort required by rationalising and optimising the tooling used to make the changes needed going to can extract reusable components, either for for use as Services within a SOA environment.

ough a 'black box' and replicate the system in a 80-20 rule tends to apply, with automatic for this to be financially viable.

se of the tooling involved above to extract designs).

into a greater depth below. However, having defined e will take to help a customer arrive at the best

- 1 -

to Application Modernisation

the 2

... the process of testing – who does what where and to the requirements

... since the project starts. There is a tendency to "live engineering application to improve their functionality by that we not only deliver the new solution but how ing it going forward. As an example converting from that uses, say, J2EE or for SCM without looking to solution for the longer term is a real missed

**onal Insight**

**boards**

**the Processes**

222

**Team Concert**

... and Jazz portfolio, as above. Rational Team Concert collaboration and the visibility via the dashboards, management and automated builds. Rational ment of the processes of requirements capture and is it does the same for testing. Rational Insight provides e total project and allowing measurement of every

... order of the Rational portfolio, including both location Modernisation.

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# Rational Application Modernisation Solutions

## ■ Aimed to Help Customers with:

- ▶ **Escalating Costs** – Spend too much time and resource on maintaining old applications (up to 80% of IT budget is maintenance)
- ▶ **Wide Spread Need** - The pain it causes exists in all sizes of company and in all marketplaces
- ▶ **Proven, Available Solutions** - whichever direction Modernisation takes you.

## ■ Real Solutions

### ▶ The customer can do two things which we will discount:

- Nothing (and pay for increased costs) and buy packages or outsource totally

### ▶ There are four other Options which need to be discussed in detail:

- “Update” – Improve the user experience using tools like HATS or Portal
- “Optimise” – Make it easier (and cheaper) to maintain the back-end applications. Leads to Asset Identification and reuse, then to SOA and WebSphere Process Server.
- “Convert” – Move the existing applications ‘as is’ to a new platform using automated tooling
- ..and “Re-write” – Start again but making use of the existing assets and extracted designs. Move to a ‘write once, use many times’ environment, increasing quality and lowering costs

## ■ Every Customer is Different

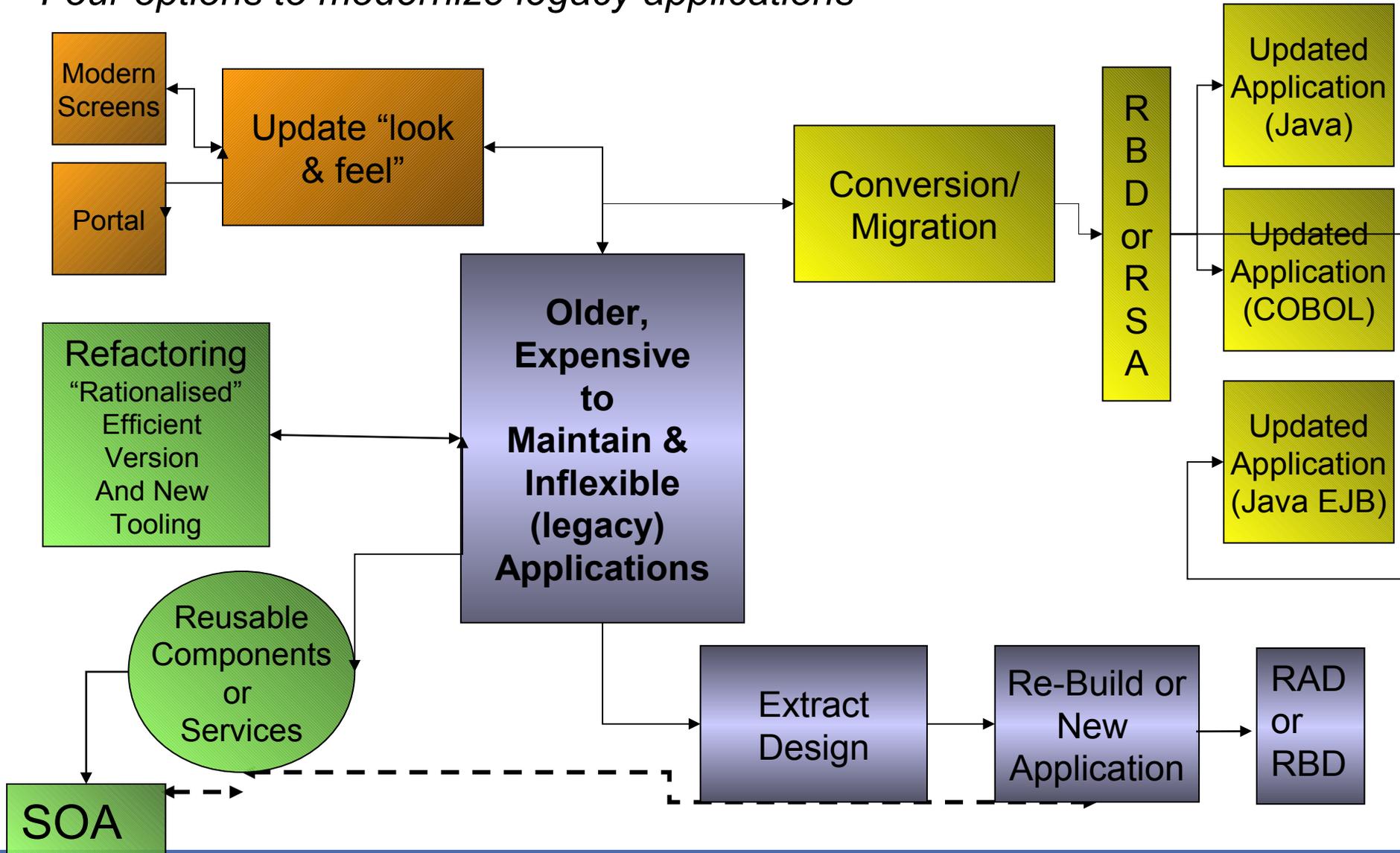
### ▶ Assess Priorities

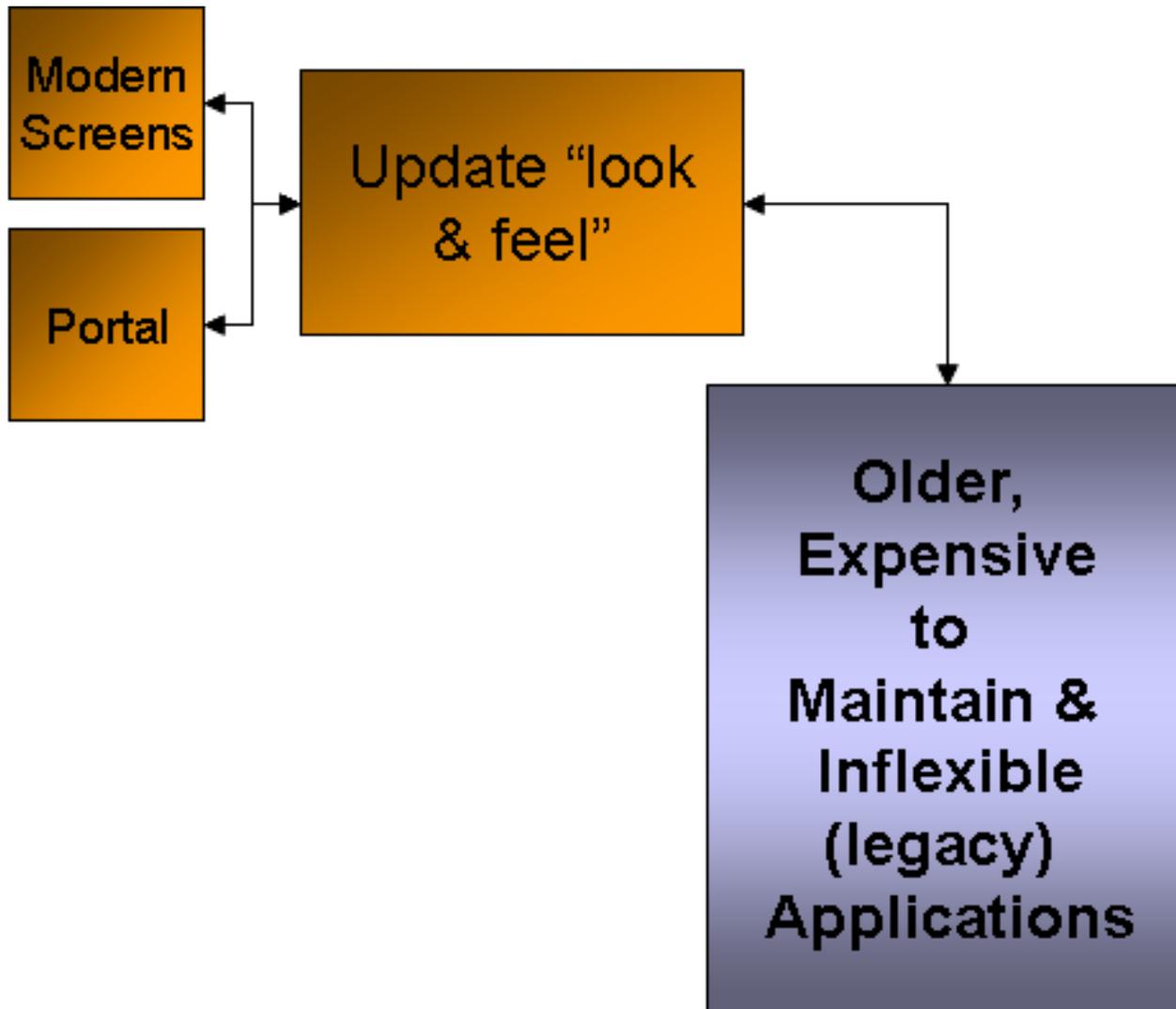
- May be necessary to have a short term solution whilst the strategic approach is defined and implemented
- Major element of timing – customers often have to commit to licence and contract renewals at fixed dates, leaving them no option but to continue paying excessive charges



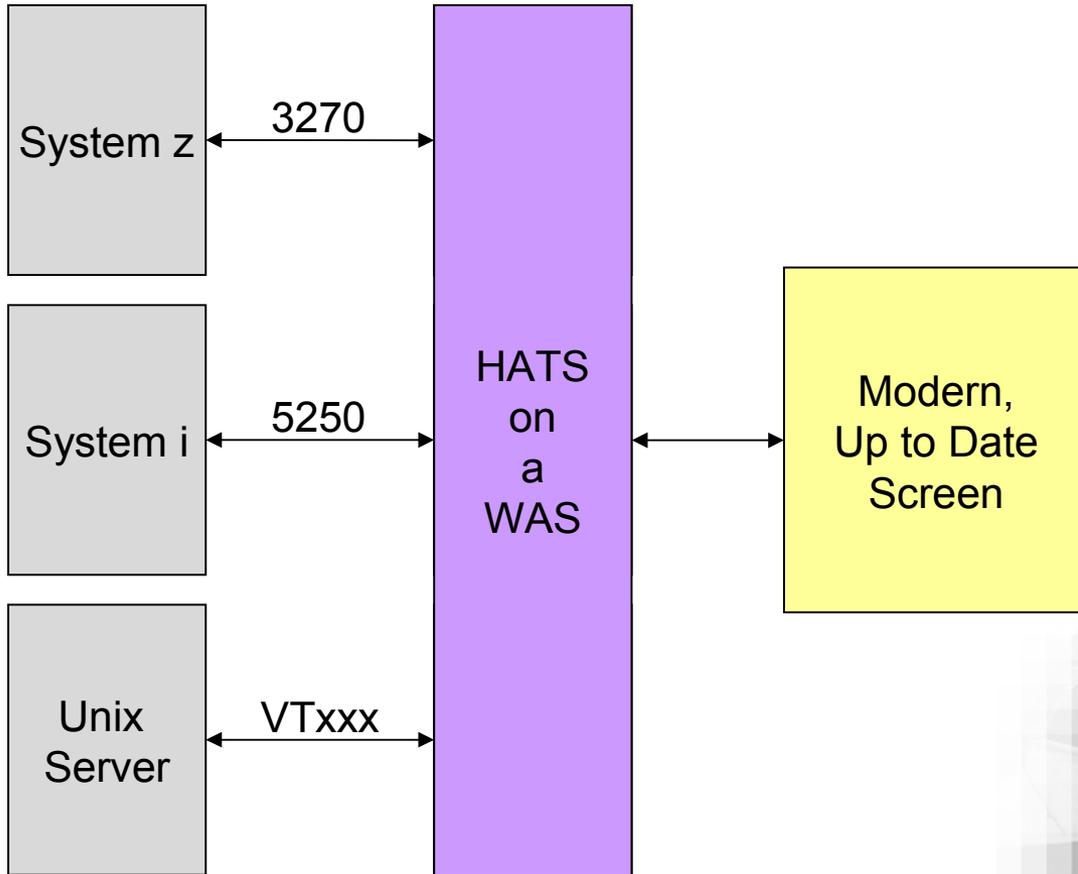
# What's a Customer to Do?

*Four options to modernize legacy applications*





# HATS - what is it?



# Host Access Transformation Services (HATS)

## Rich Client



- Integration at the desktop with other Eclipse-based applications
- Client side processing
- Rich set of user interface widgets
- Supports Lotus Expeditor deployment

## Browser



- Zero footprint
- Pure HTML
- Access through your favorite browser, including Internet Explorer and Firefox.
- Web 2.0

## Portal



- Integration at the glass
- Cooperative portlet support
- JSR 168 compliant

## Mobile



- Access host applications from mobile devices
- Now includes iPad

## Web Services



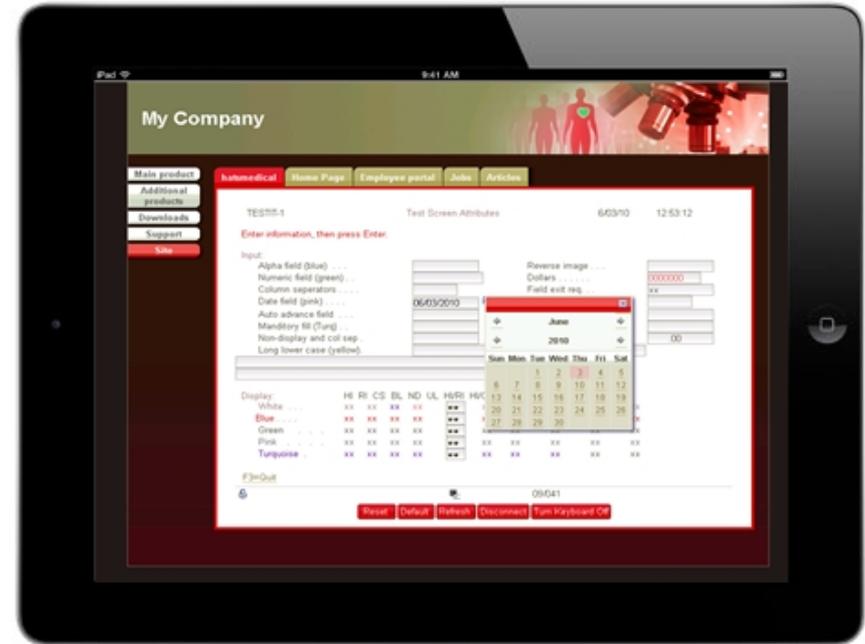
- Build self-service transactions
- Expose host business processes as Web Services
- Provide controlled access to vital host applications and host data.

- *Quick ROI : Host applications can be quickly deployed with a new user interface*
- *Low cost : No need to rewrite application*
- *Low risk : Leverage open, proven platforms and technologies*
- *Increase productivity and reduce training costs*
- *Improving work flow from multiple applications*
- *Provides integration of host business processes and data with other Web, portal, and rich client applications*

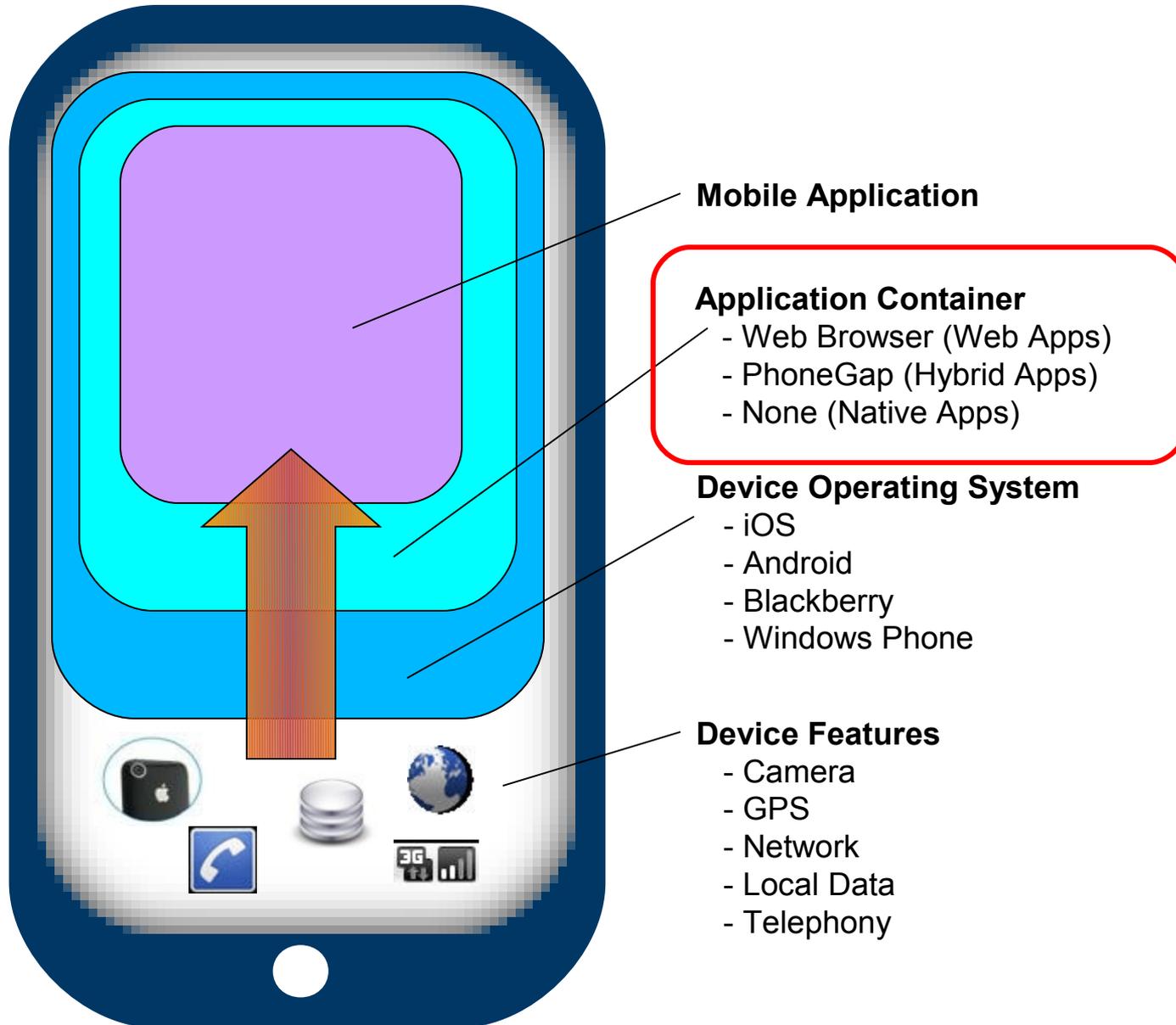


# iPad Support

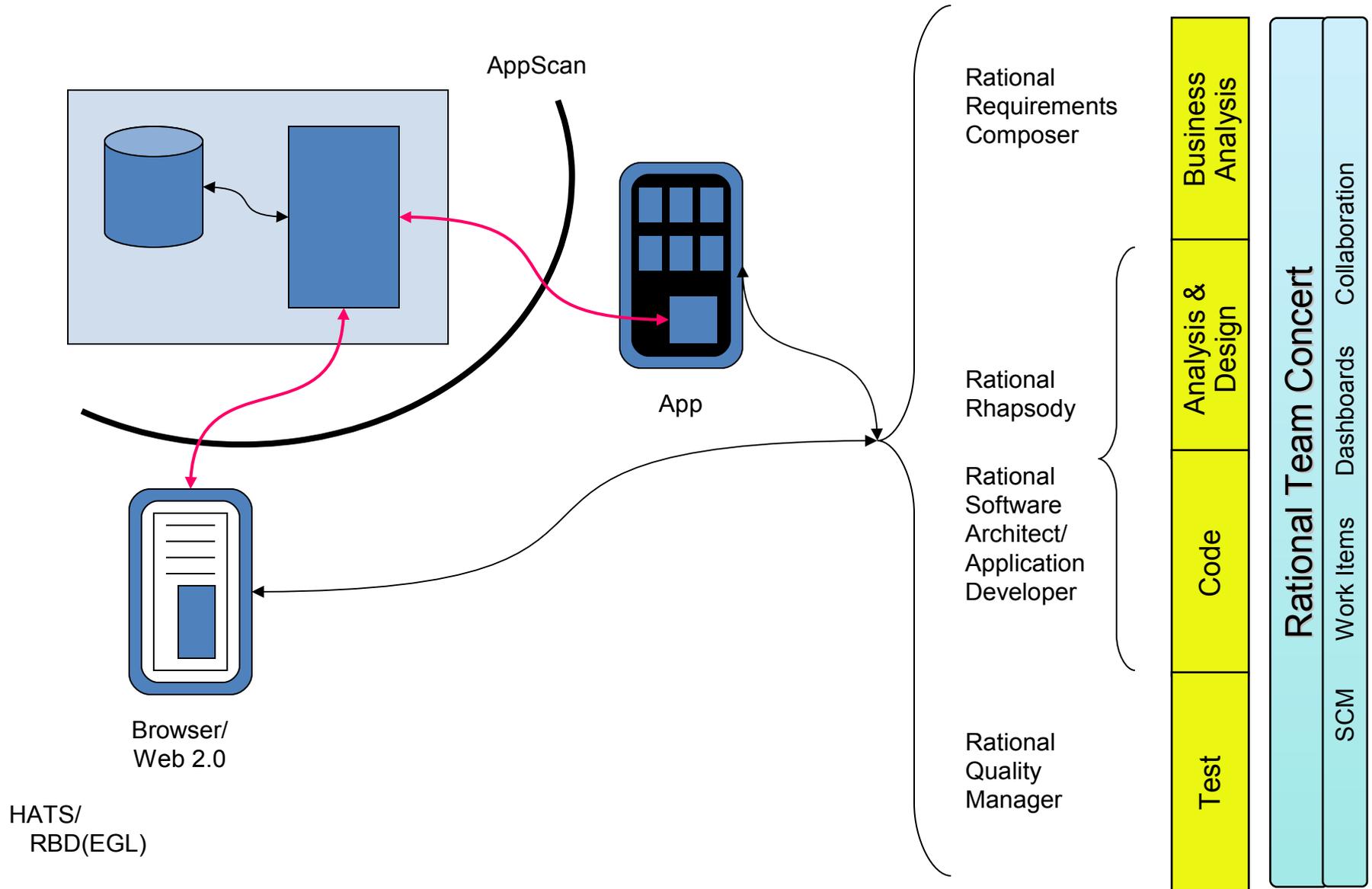
- iPad has been added to the growing line up of mobile devices that HATS supports
  - ▶ Windows Mobile devices
  - ▶ iPod Touch
  - ▶ iPhone
  - ▶ iPad
- The larger display size of iPad works especially well for customer facing roles
- Mobile devices open up possibilities:
  - ▶ An employee on the department store floor needs to check stock in the warehouse and make an order
  - ▶ A distributor of products to car dealers needs to track product availability and order products while at the dealer
  - ▶ Hospital personnel need to take inventory across a large campus
  - ▶ Service personnel need to order products and mark work complete

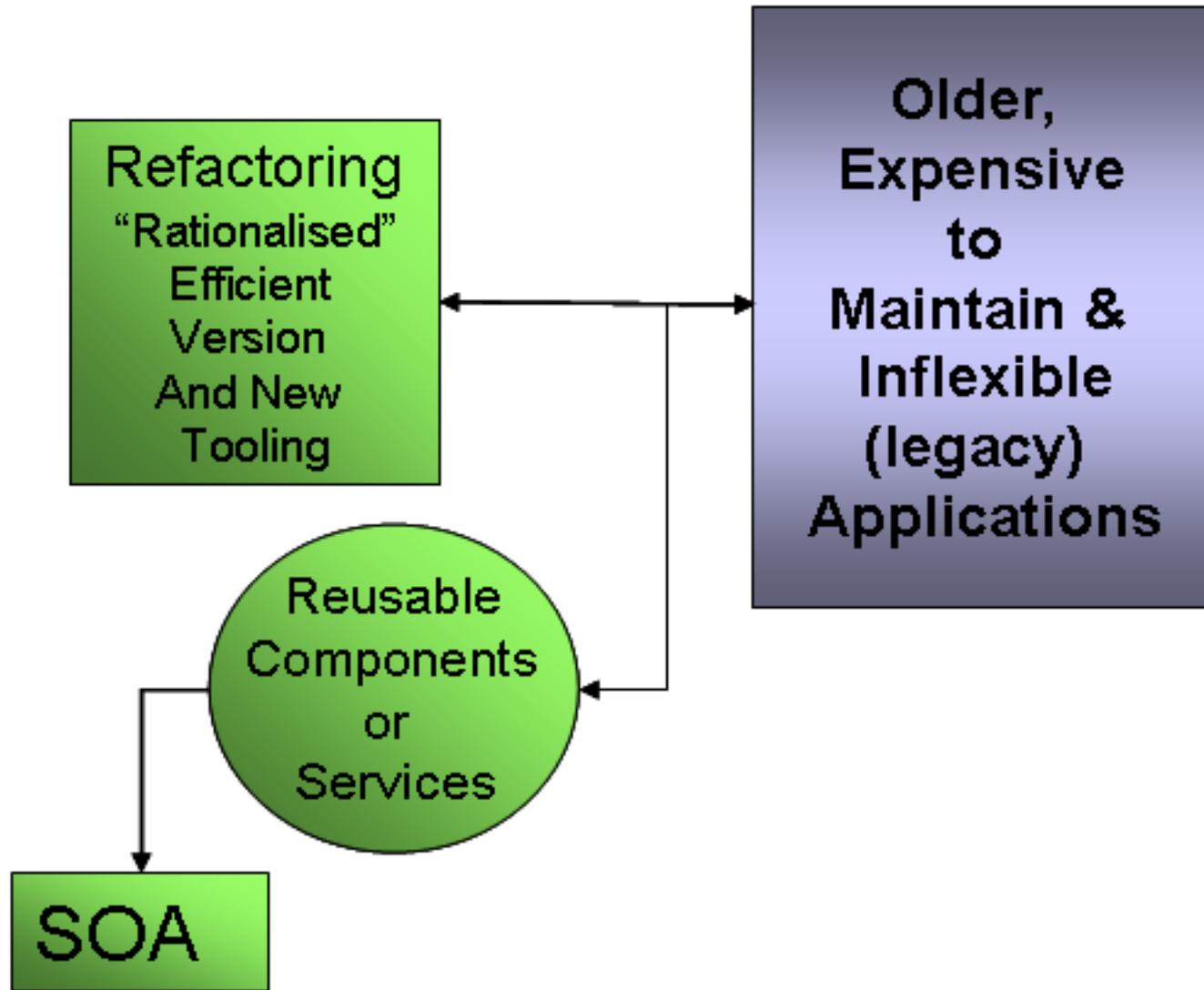


## ....and now, add Mobile App



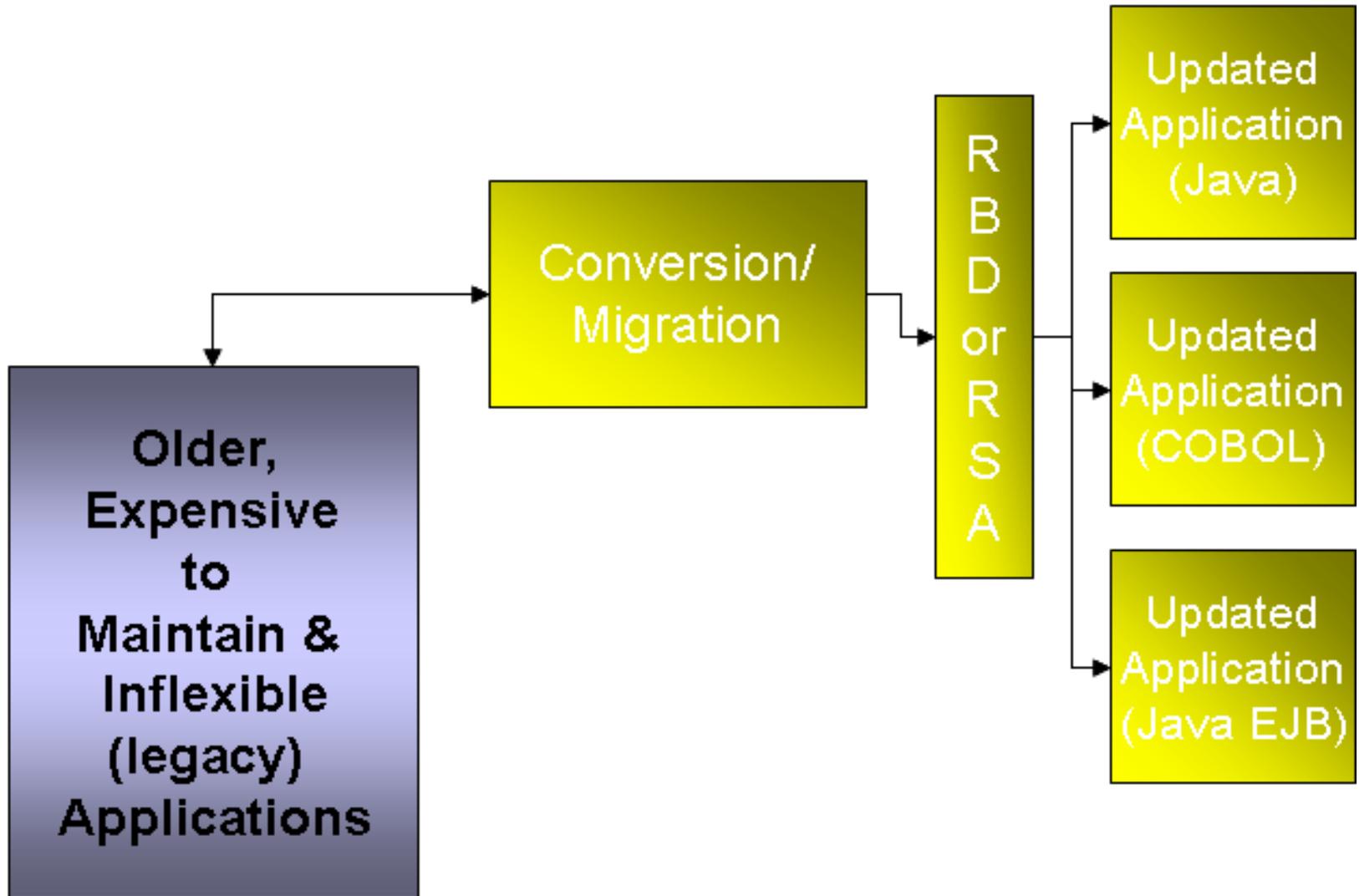
# Developing Mobile Apps.



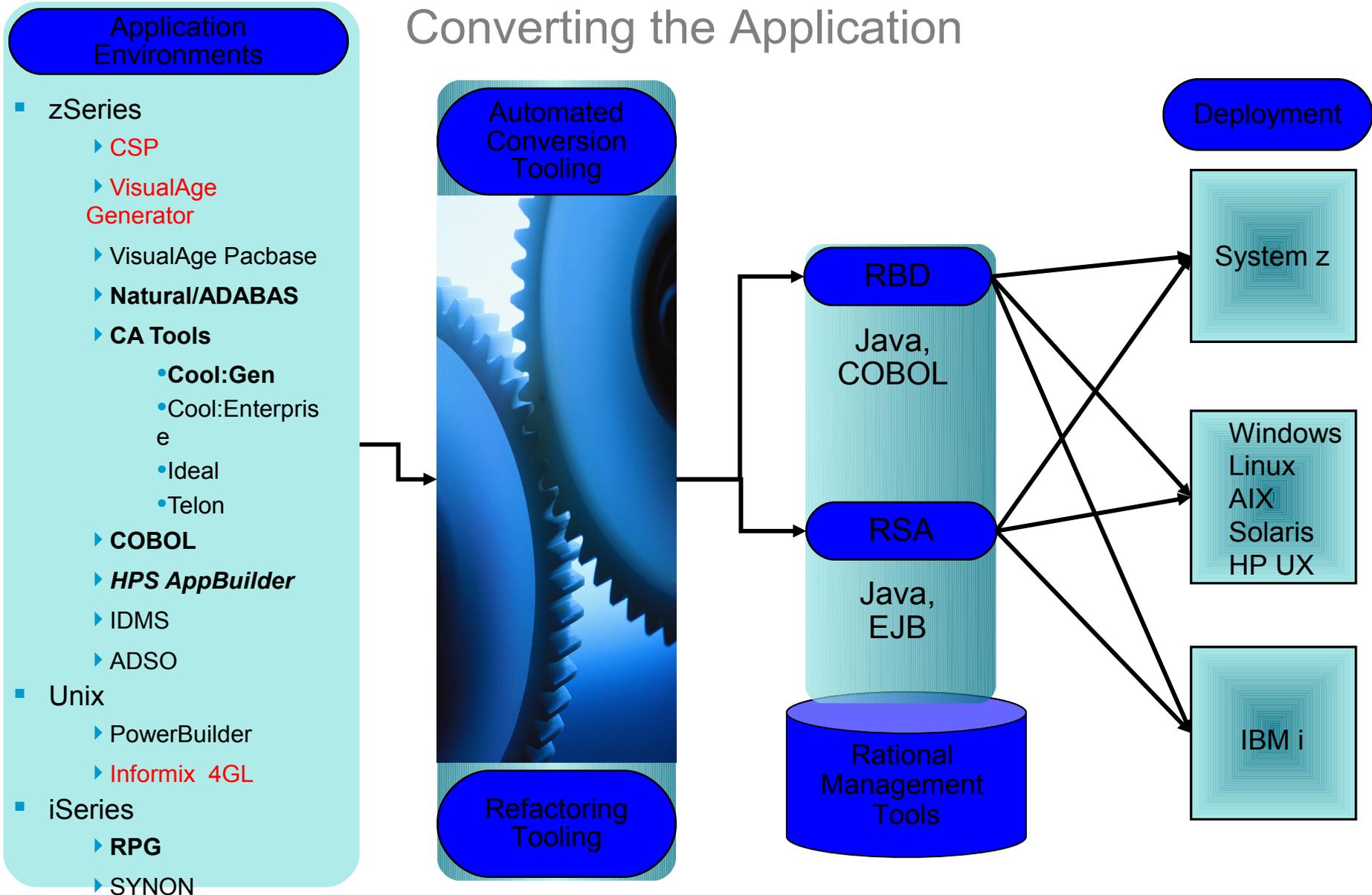








# Converting the Application



# Progressing with Application Modernisation



Excessive Cost,  
Opportunity Cost,  
Productivity,  
Lack of Resource,  
“Aging Population”

What causes  
the Costs?  
What are the  
possible  
options?

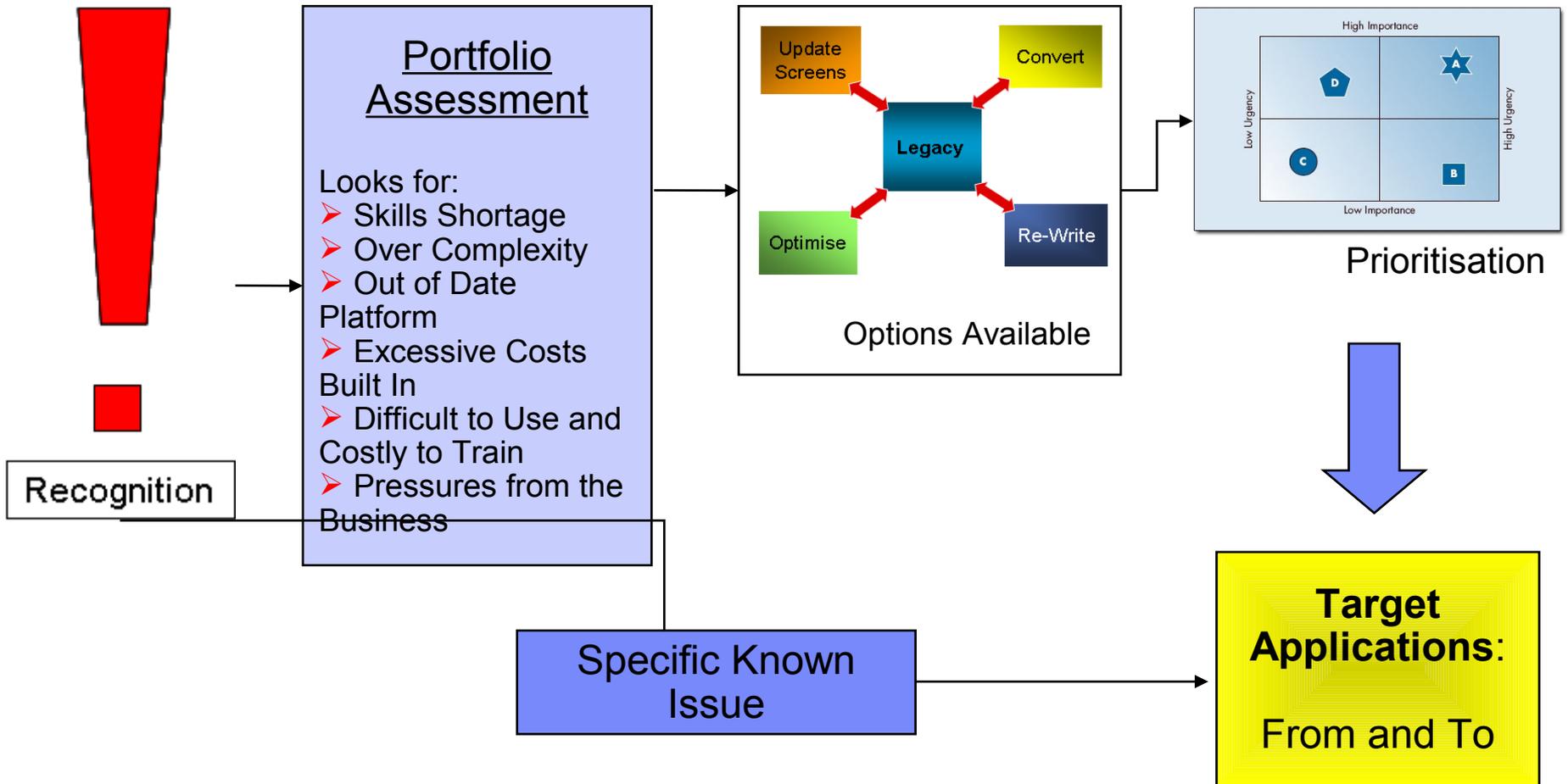
Solution Outline.  
Reduced Costs,  
Greater  
Productivity,  
Future Direction

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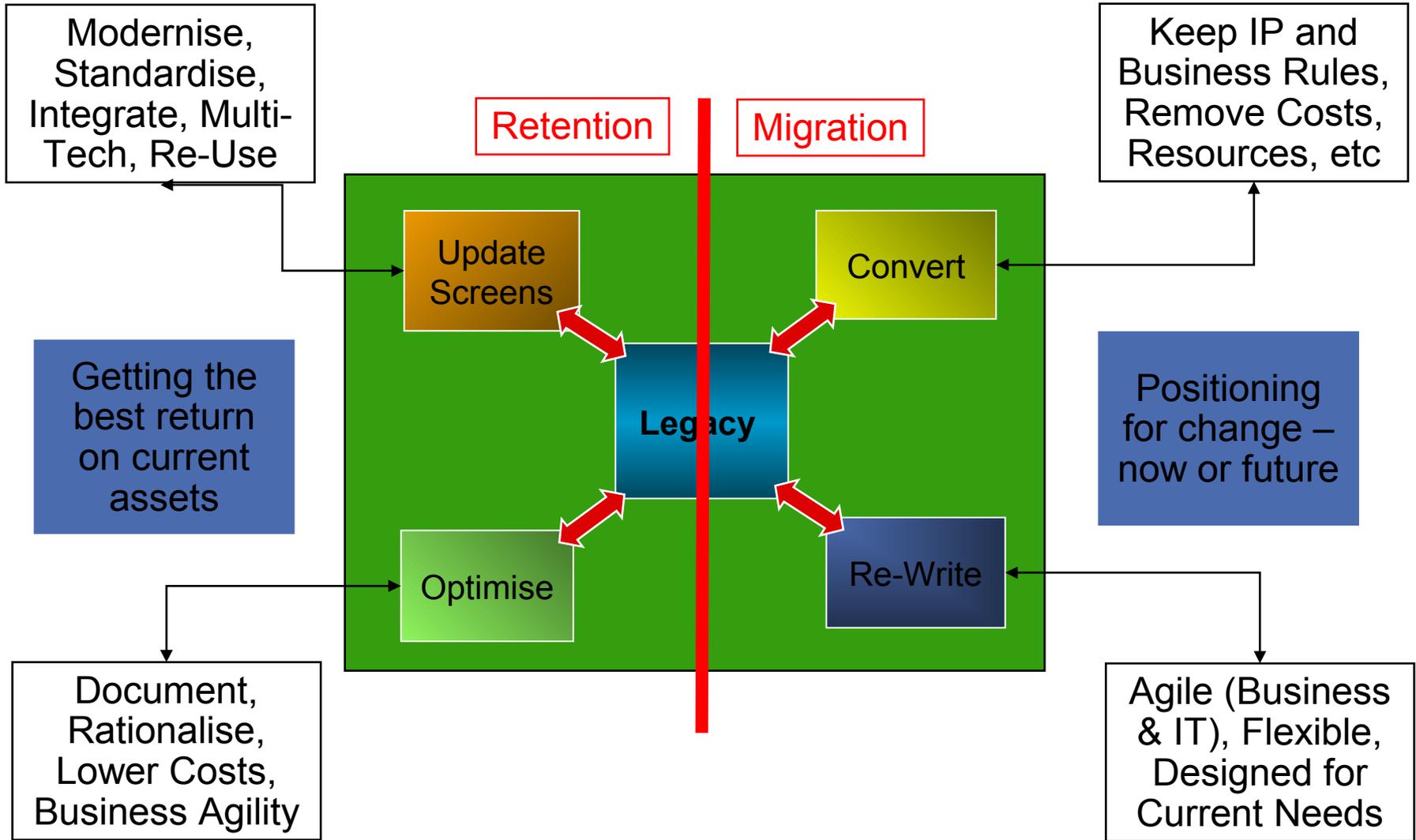
Project  
Management,  
Source Skills,  
Target Skills,  
Business Ana.



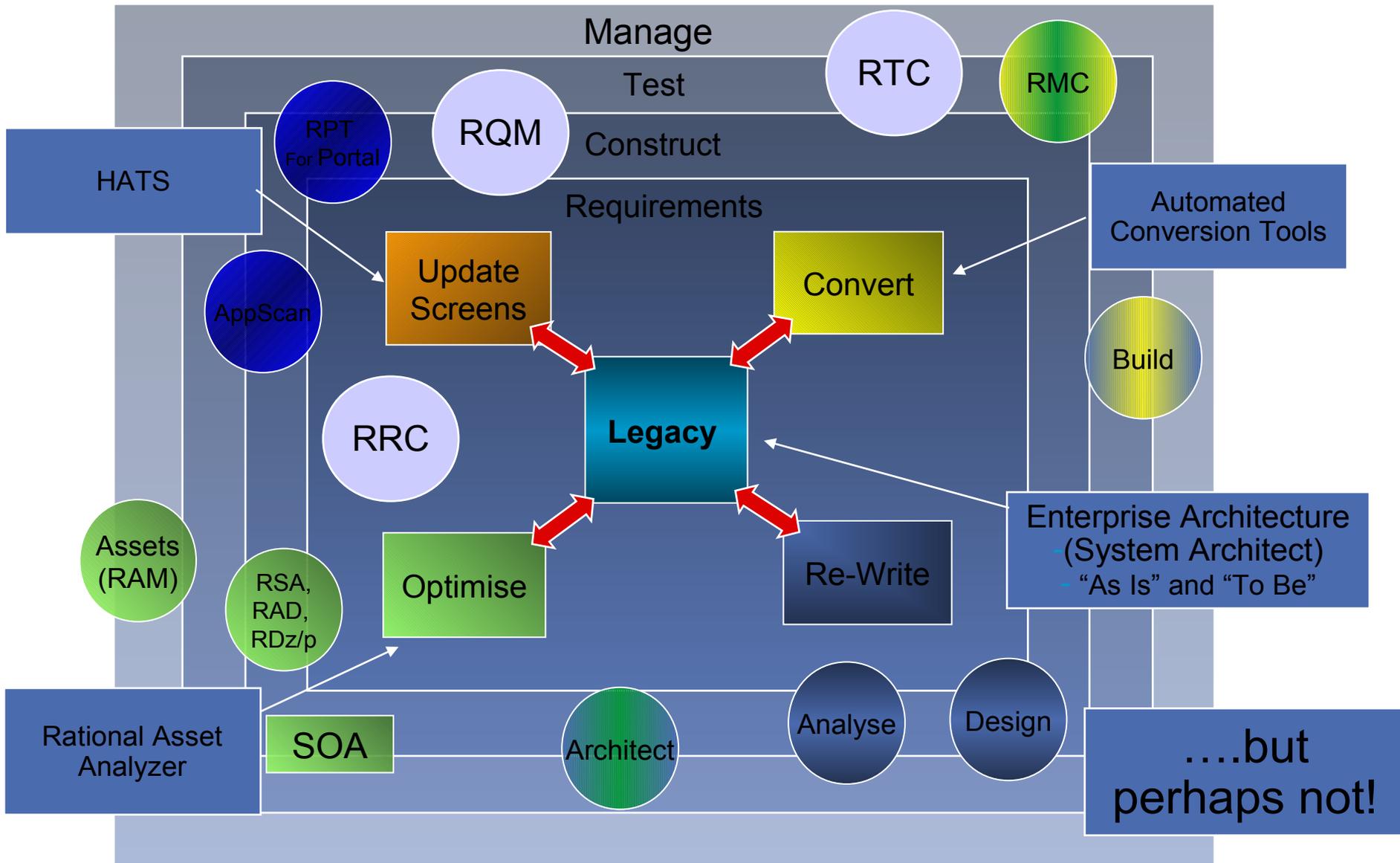
# Process Flow – Which Applications?



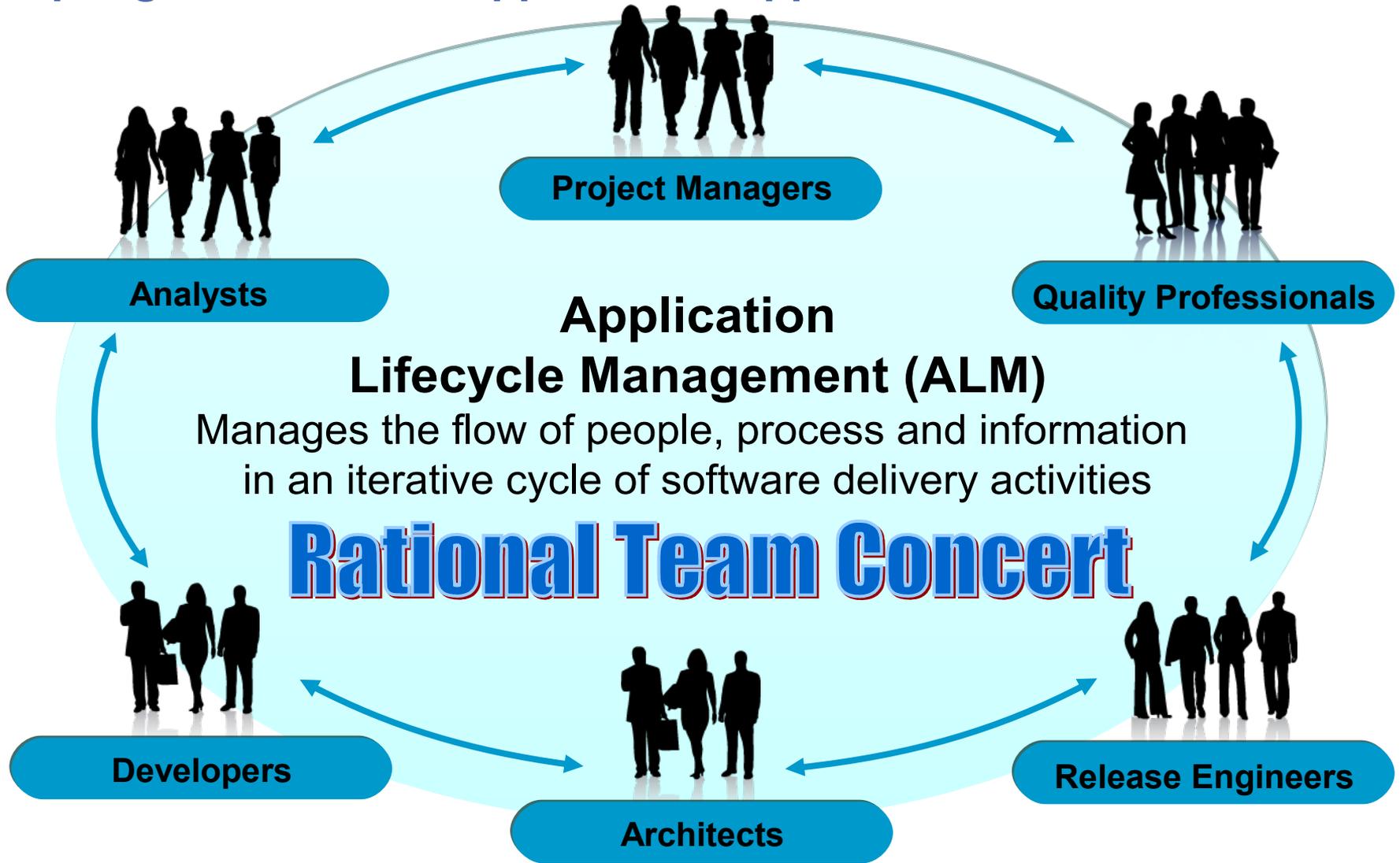
# Modernisation Projects and Hardware



# Leveraging the Rational Portfolio in Modernisation Projects



# Adopting a whole-team approach to Application Modernisation



## Rational Team Concert: A Close Look

### Planning

- Integrated release/iteration planning
- Effort estimation & progress tracking taskboards
- Out of the box process templates: formal or agile

### Project Transparency

- Customizable web based dashboards
  - Real time metrics and reports
- Project milestone tracking and status

### SCM

- Component based SCM enables reuse across projects
- Change set based for easy addition or removal of features
  - Server-based sandboxes
- Use RTC SCM or SVN, Git, ClearCase or Synergy

### Work Items

- Defects, enhancements and conversations
- View and share query results
  - Support for approvals and discussions
    - Query editor interface
- Connects to ClearQuest or Change

### Build

- Automated Work item Build definitions for team and personal builds
  - Local or remote build servers
  - Multi-level continuous integration

### Jazz Team Server

- Single structure for project related artifacts
- World-class team on-boarding / offboarding including team membership, sub-teams and project inheritance
  - Role-based operational control for flexible definition of process and capabilities
- Team advisor for defining / refining “rules” and enabling continuous improvement
  - Process enactment and enforcement
- In-context collaboration enables team members to communicate in context of their work



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Key Links:

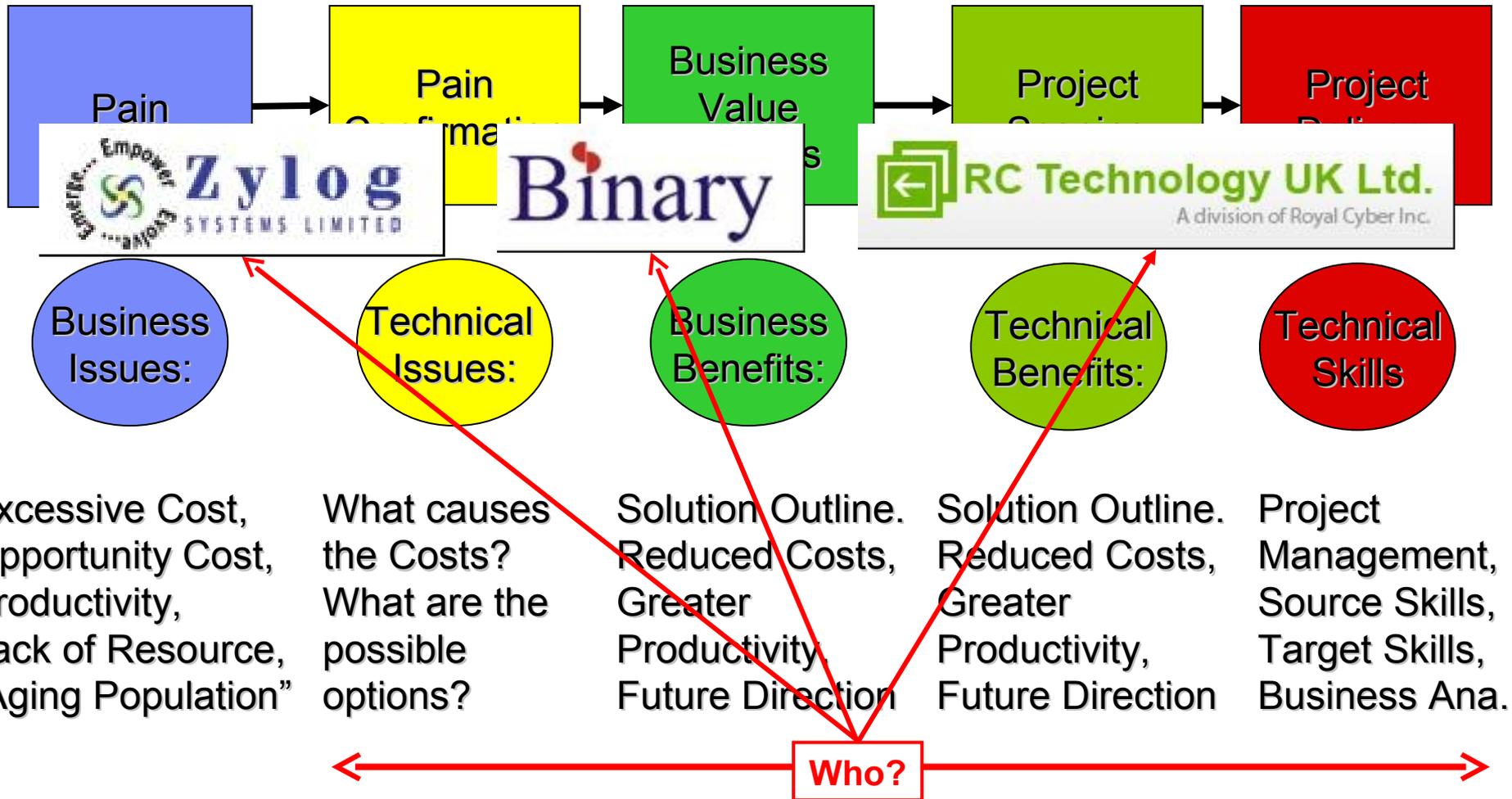
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[www-01.ibm.com/software/rational/announce/power/](http://www-01.ibm.com/software/rational/announce/power/)

<https://jazz.net/>



# Progressing with Application Modernisation



# Jazz in a Mixed World

