



IBM Software

UK Innovate 2010

The Rational Software Conference

Smarter software for a smarter planet.



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Application Modernisation

Delivering Agile Legacy

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Smarter software for a smarter planet.



Agenda

- Introducing Legacy Lifecycle
 - Why do we have a problem?
 - What is our approach?
- Delivering agile legacy
 - Leveraging the Rational toolset



Introducing Legacy Lifecycle



Understanding the drivers – it just got a whole lot harder

Client situation

- Legacy constraining business
- Difficult to change due to complexity
- Little or no appetite to invest
- Huge business dependency for BAU
- Skills shortage
- Cost to change
- Business risk of old technology
- Time to market, compromised
- Intellectual Property embedded
- Escalating IT costs vs. Business expectations of reduced costs
- Etc...

Same old stuff, nothing new...



The Business won't tolerate it – cost cutting alone is no longer enough.

Coming out of recession, harder, faster and qu than the competition is a must.

...but the combination of this stuff is "new"



Less on KTLO, more to Innovate to compete.

Technology innovation is now within the domain of the business – and they demand it now. It's IT's responsibility to engineer the headroom for change.



Computer says "no", is no longer acceptable.

The appetite to stomach wholesale change or major investment is not an option, but neither is doing nothing. It's just supposed to happen.

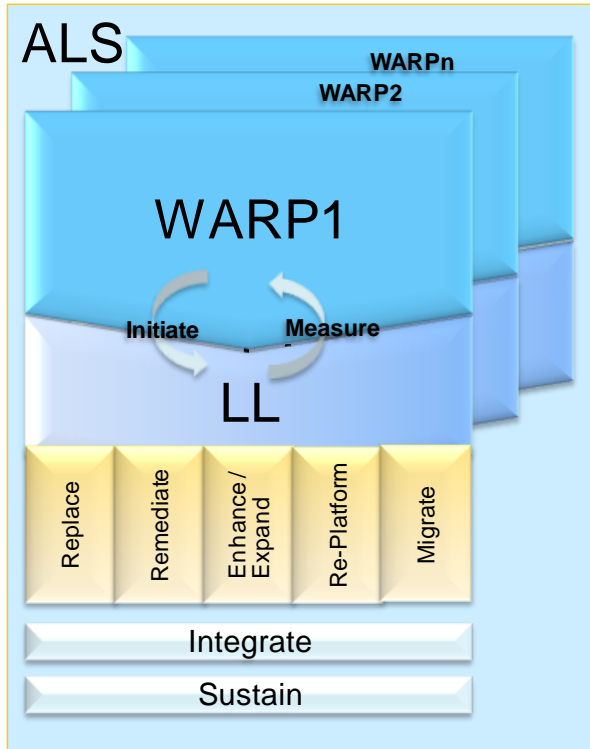


For the CIO and IT Departments, "how long have you got to fix this, before someone does it to you?"

Gartner rank "Legacy Modernisation" No.4, after BI, Enterprise apps and server consolidation.



Introducing Legacy Lifecycle



The transformation of applications to a flexible and sustainable technology, driving business efficiency and reducing Total Cost of Ownership

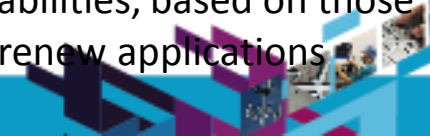
LL is:

- Part of the Legacy lifecycle
- Evolutionary
- Minimal business disruption
- Drives innovation
- Controlled risk
- Maintainable and cost effective
- A Framework based on leading practice

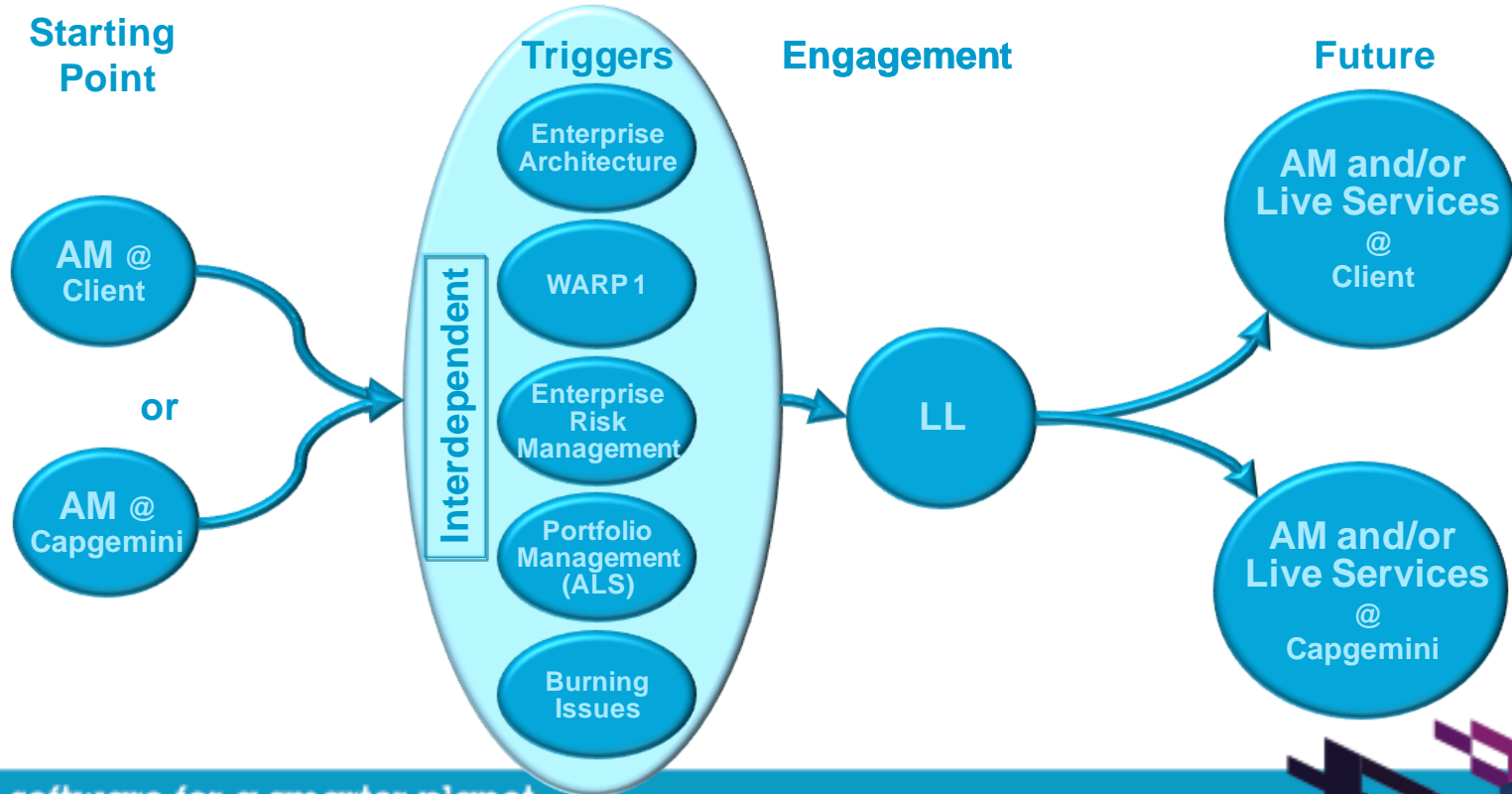
LL is not:

- Infrastructure consolidation
- A landscape transformation

Uses a set of moderniser methods and capabilities, based on those identified by Gartner, to retain, re-host or renew applications

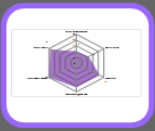


How do LL projects begin?

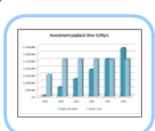


Approach WARP1

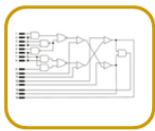
Wide Angled Rationalization Programme




AMBI – engine. Grinding through the application context, 27 areas of Productivity, Flexibility and Impact, as is and to be are benchmarked.



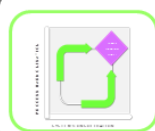
CASE - By quantifying value improvements using tailor-made techniques, we enable the program to visualize and quantify the value potential.




PATH - A bold, hypotheses-driven approach effectively narrows down on the choices and plots alternative rationalization scenarios.



PLAN – Here change dynamics are tackled and design results of the other streams synthesised into a pragmatic roadmap.



BIZZ - Changes scoped through specific hypotheses for processes and organizational change. Reference models provide a benchmark.



APPS – engine. Grinding through the application portfolio, factual insight into landscape metrics allow for intelligent decisions.

1. **ACCELERATORS:** We don't start empty handed: we work from hypotheses and proven rationalization patterns, derived from 3by3 framework.
2. **WIDE-ANGLE:** We have a wide-angle approach – we don't look at the applications only, but also at the context (ambiance) and the link with processes and data harmonisation
3. **ENGINES:** We have two 'engines' that both help to develop the hypotheses and to substantiate or refute them.
4. **COLLABORATIVE:** We warp the engagement to fit in 4-8 weeks and work in collaborative way with the client to get maximum support for the chosen rationalisation design, business case and roadmap

Targeted tools, and hypotheses – that provide robust business deliverables.
You get an informed business case and plan for change you can be confident in.



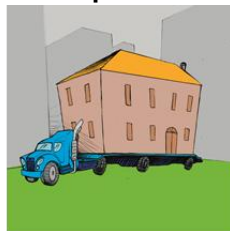
The Legacy Lifecycle options ...

Sustain



"keeping the application fed and watered for the minimum effort and cost"

Re-platform



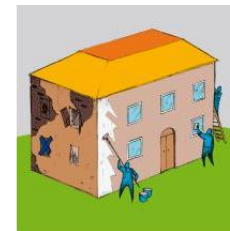
"moving the application to a more modern hardware / operating system"

Decommission



"retiring the application in a controlled manner, preserving essential data"

Remediate



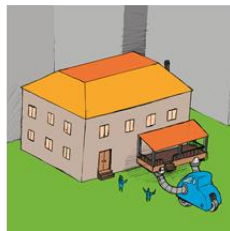
"re-factoring the application to a better structure to improve integration & flexibility"

Consolidate



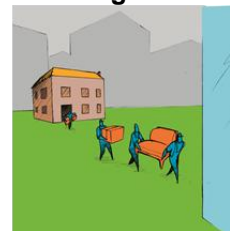
"reducing duplication, reducing overheads and driving efficiency by consolidation of processing"

Extend / Enhance



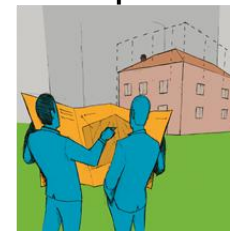
"improve integration and flexibility through service enablement"

Migrate



"translate to a new language or re-use the code in a modern environment"

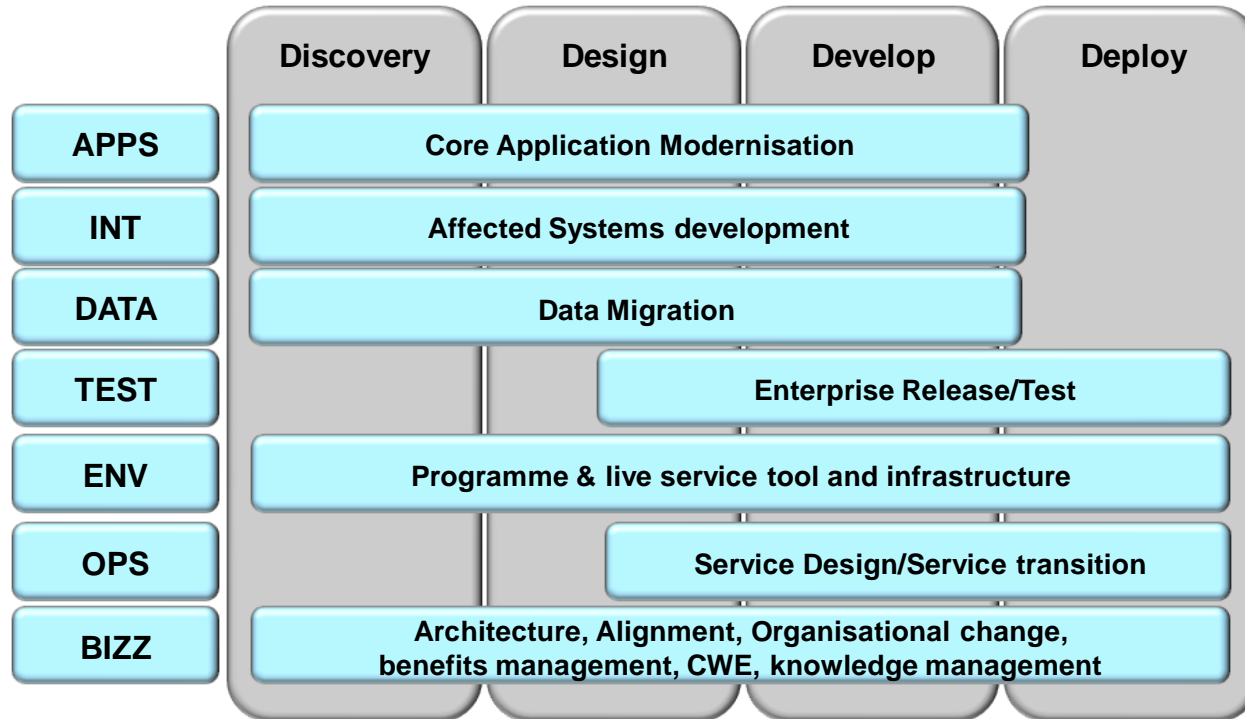
Replace



"mine the application for the essential rules and re-create in a modern language or package"



Four phases, seven streams of activity ...



The phases in context ...

Discovery

The Discovery phase is focussed on the investigation of the existing system and visioning of the target system. Evaluation of the hypothesis used for the modernisation against a number of aspects and platform is made.

Design

The Design phase concentrates on the definition and specification of the target system, platform and data. It specifies the migration tools and how they will be used and my incorporate a proof of concept to validate and demonstrate the modernisation approach.

Develop

The Develop phase builds and configures the tools for modernisation, develops modifications to other impacted systems and sets up the environments for testing. Dry runs of the modernisation and migration are done and tested in preparation for the deployment.

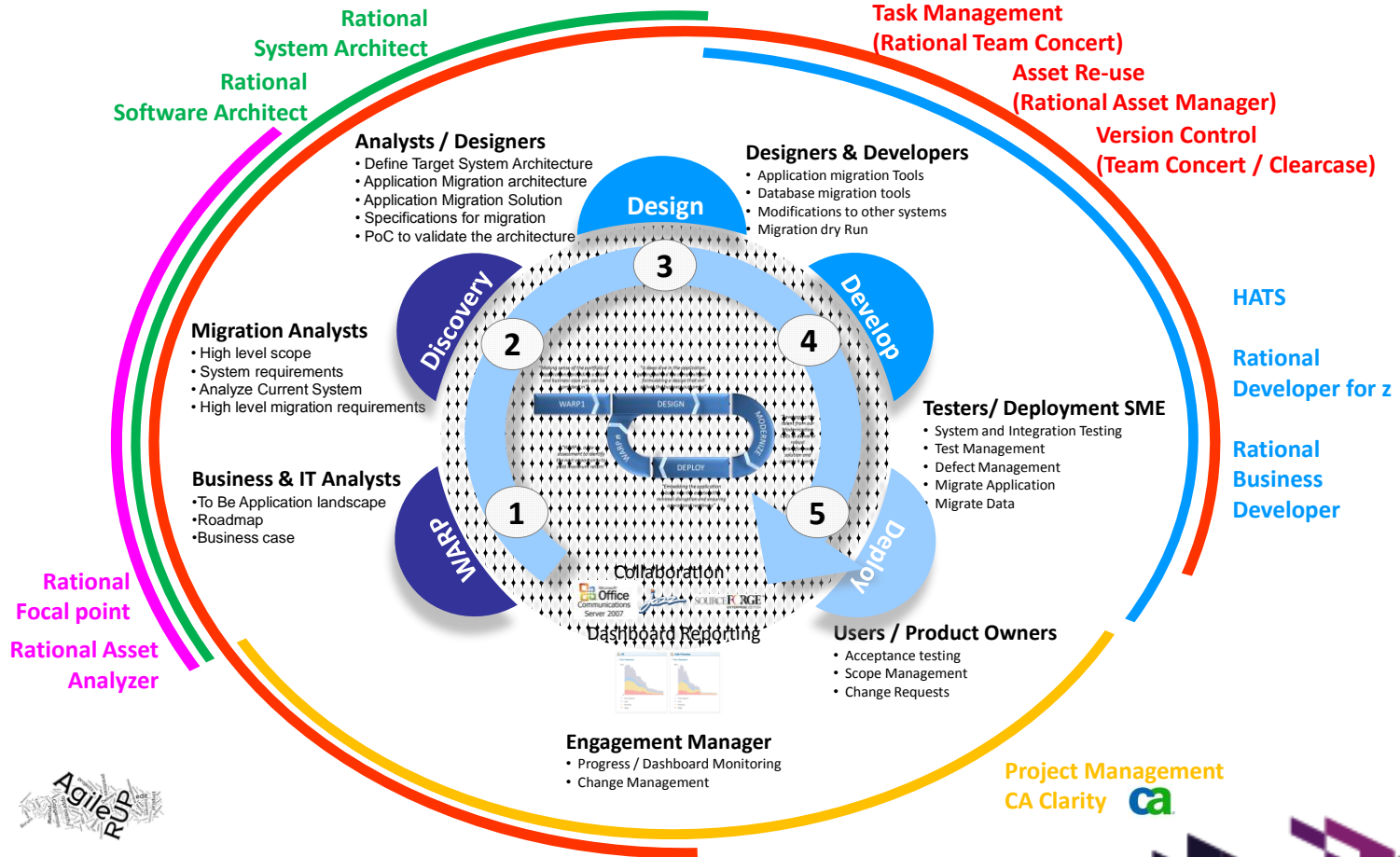
Deploy

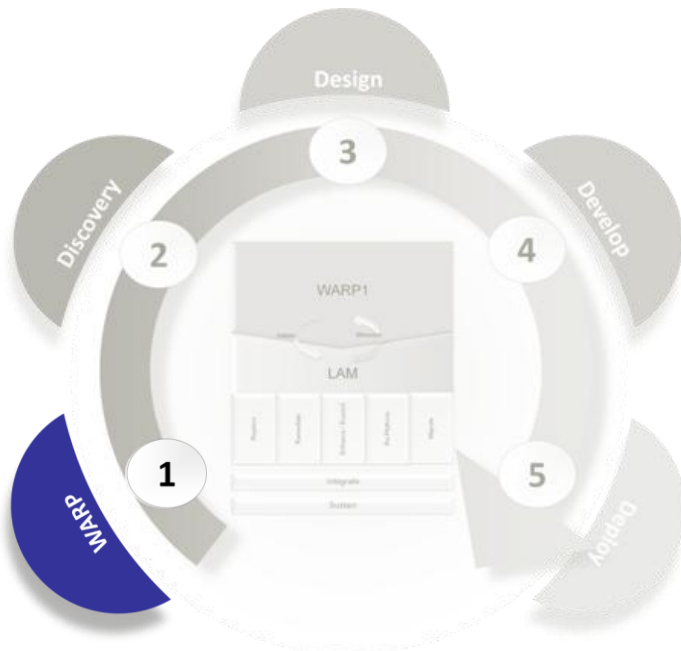
The deployment phase test and deploys the modernisation and migration of all components, hardware, software and data. The migrated system is acceptance tested before hand over to the client



Delivering Agile Legacy







WARP STAGE SUMMARY

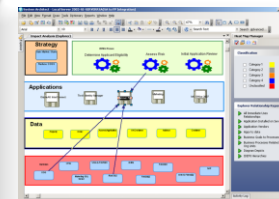
1. Business Case Input (CASE)
2. Opportunities Identified (PATH)
3. Overall Complexity Uncovered (AMBI)



“Planning and finance”



“Align and prioritise”



“Capture detail”

Deliverables

Business Case

Transformation Plan

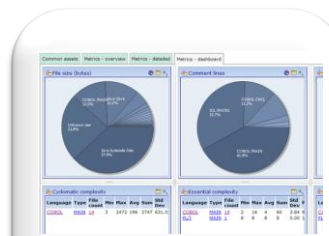
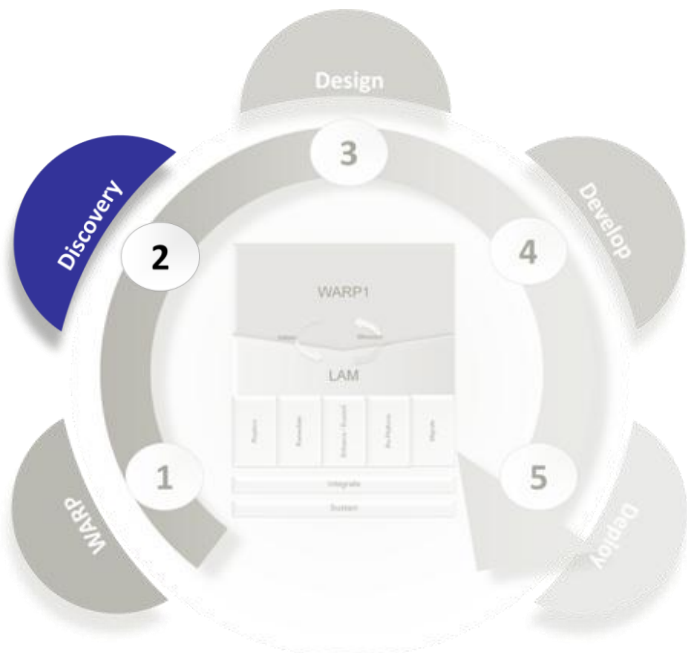
Target Architecture Roadmap

Implementation Strategy

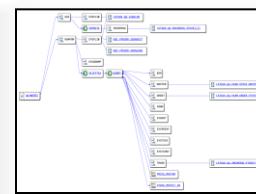
Future Organisational Model

DISCOVERY STAGE SUMMARY

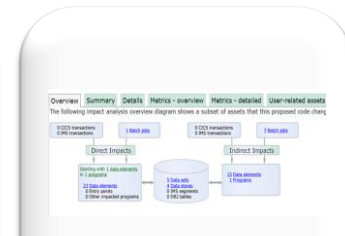
1. Complexity Understood
2. Risk Reduced
3. Estimations Improved



"Complexity measures"



"Relationships"



"Insight"

Deliverables

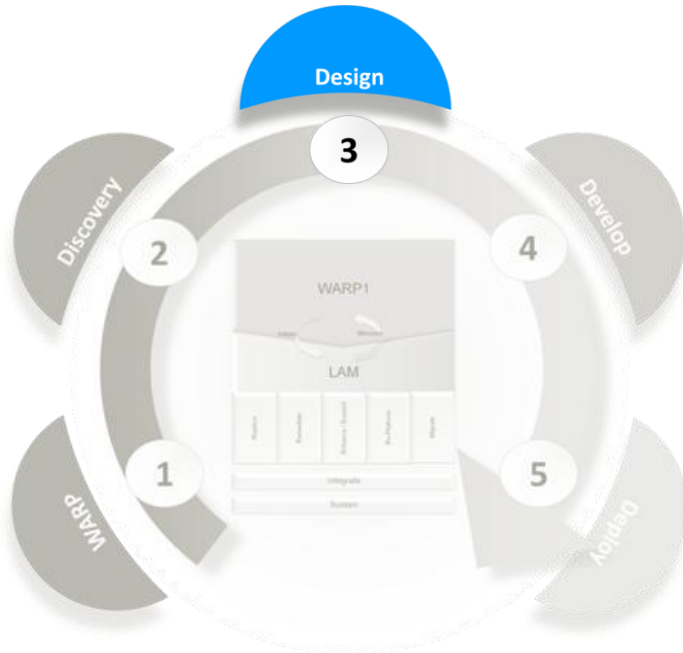
Target Architecture & Design

Non-functional Req. Specification

Other Impacted Systems Design

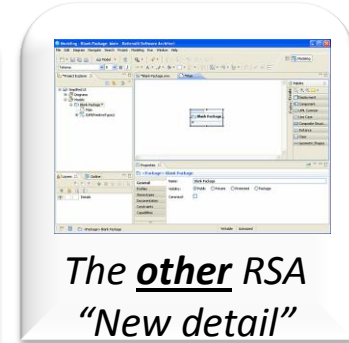
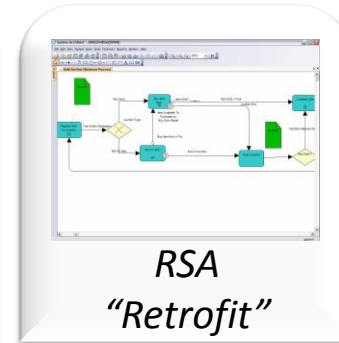
Cross Functional Supplementary Spec.

Revised Business Case



DESIGN STAGE SUMMARY

1. Design Freedom
2. Business Alignment (BIZZ)
3. Scalability / Industrialisation



Deliverables

Interface Design

Data Migration
Strategy

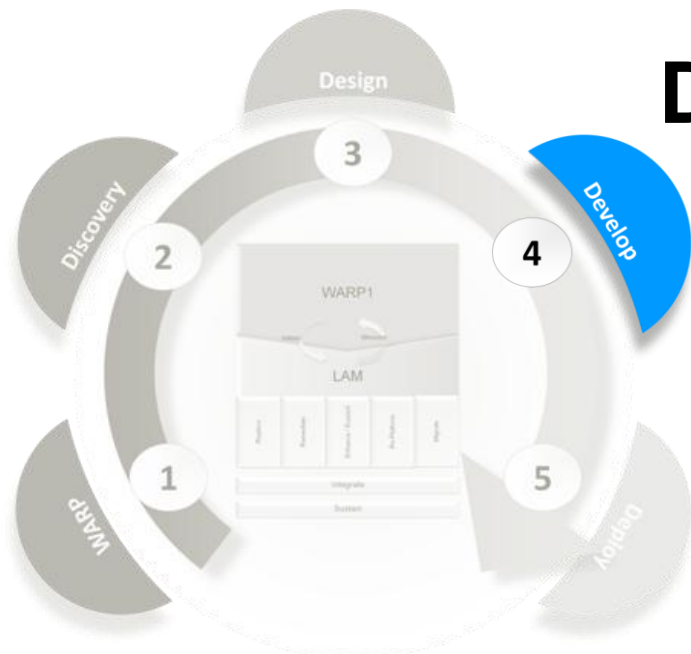
Target Database
Design

Test Strategy

Specification for Data
Migration/Tools

DEVELOP STAGE SUMMARY

1. People Productivity
2. Distributed Development
3. Agile Legacy



Deliverables

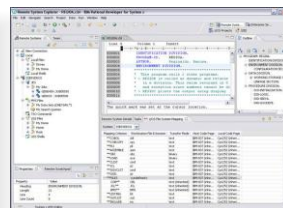
Test Plans

Unit Tests

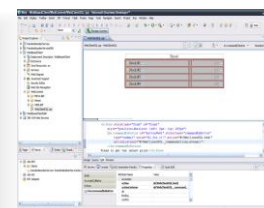
Code Artefacts

Configured Tools

Continuous Build Environment



"KTLO faster, cheaper, better"



"Drive agile legacy solutions"

Rational Team Concert for System z is based on Jazz
an open platform with a shared set of services

Jazz is:

- A scalable, multi-site team collaboration platform
- A community of Jazz.net, where you can see Jazz-based products being built
- An integration architecture, enabling mappings and non-Jazz based products to participate

"Dropping the legacy title"

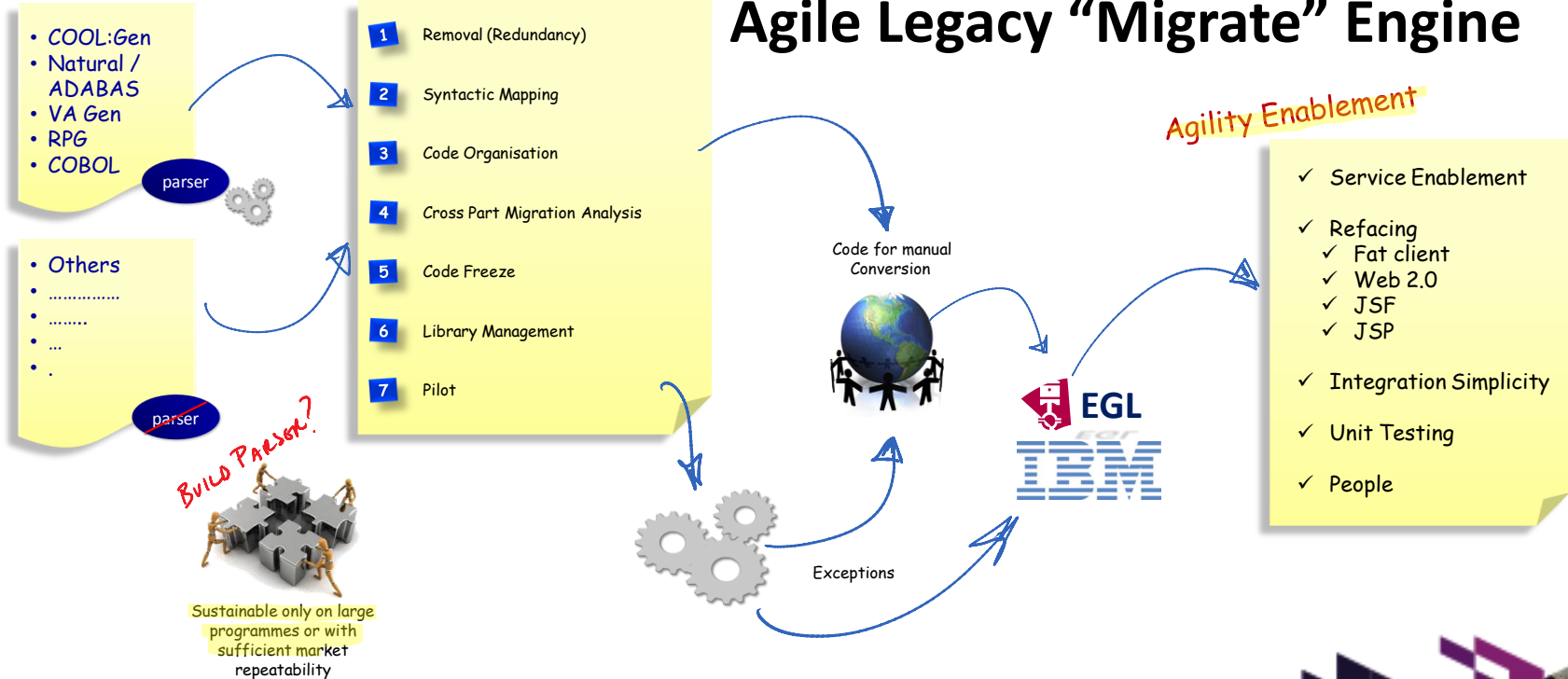
The develop “engine” combines people and tools

Input Languages

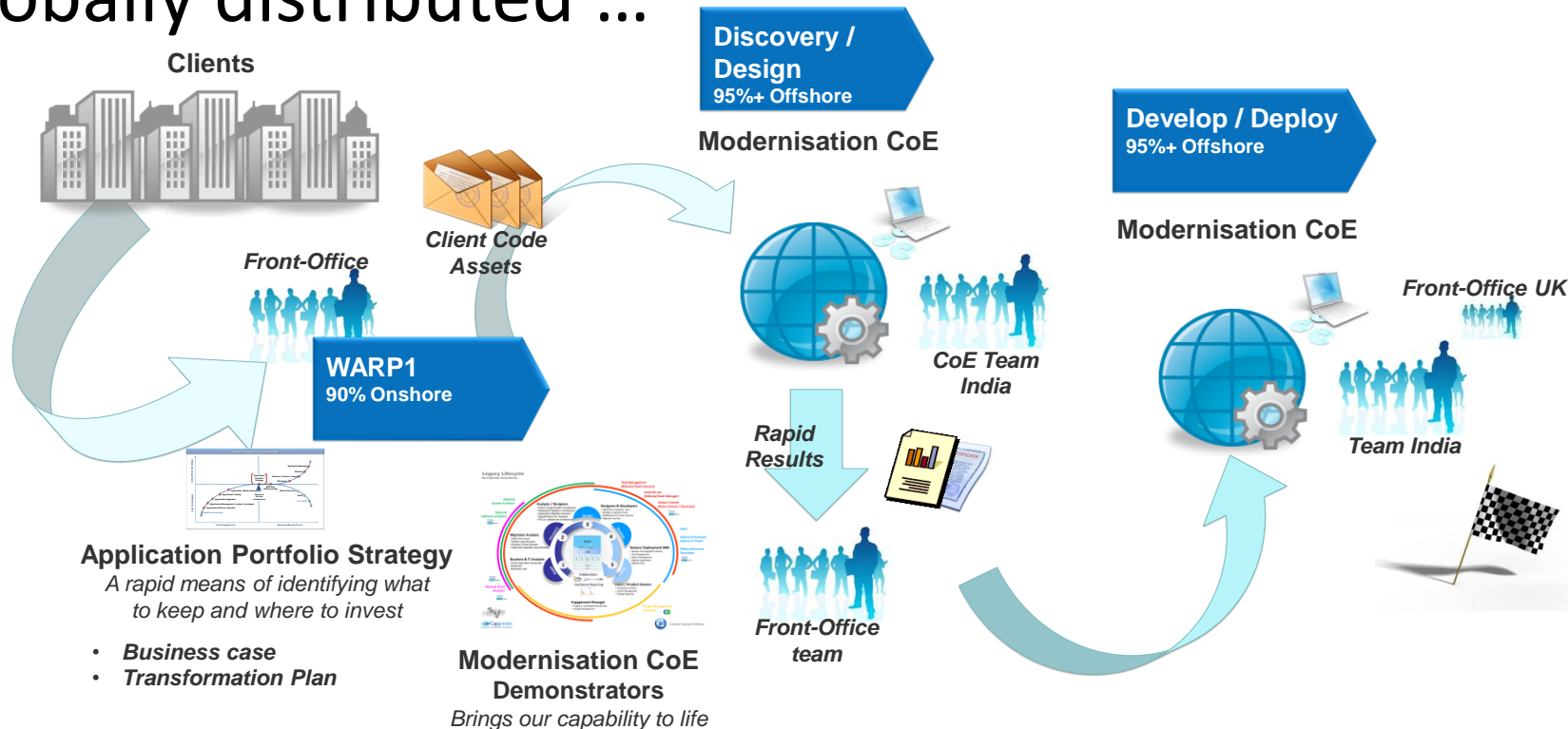
Code Preparation

Agile Legacy “Migrate” Engine

Agility Enablement

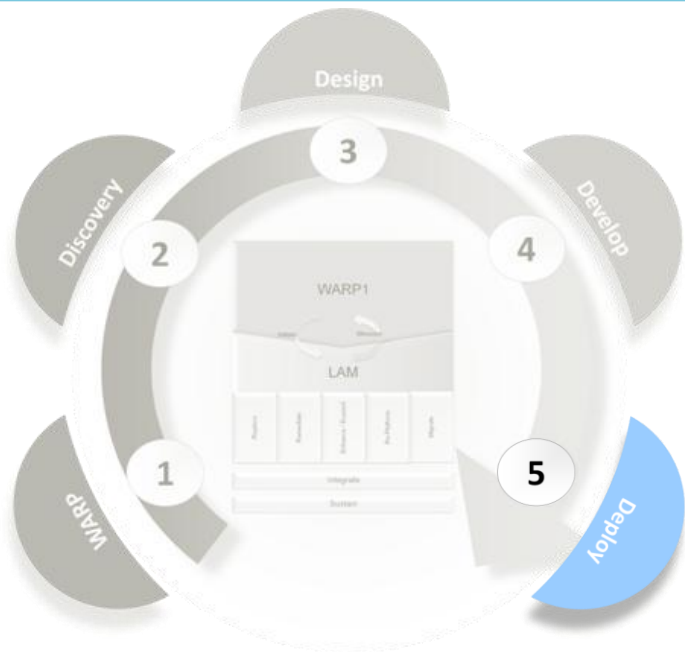


Globally distributed ...



DEPLOY STAGE SUMMARY

1. Test Plans/Scripts Created
2. Test Cycles Enhanced
3. Assured Deployment



Deliverables

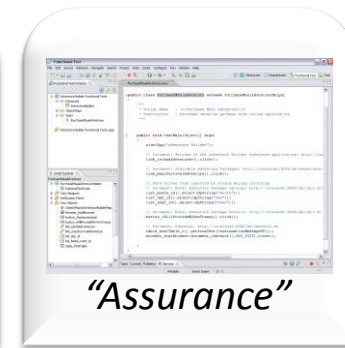
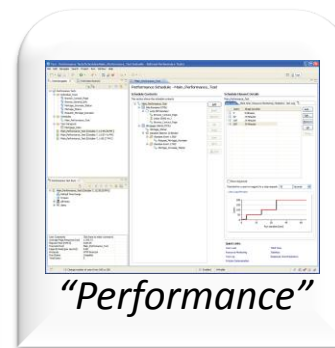
Test Specifications

Test Scripts/Data

Test Evaluation Report

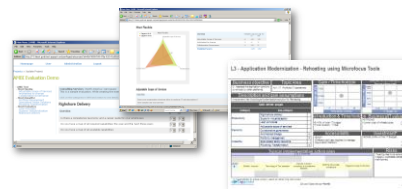
UAT Plan / Script /
Report

Configuration
Management

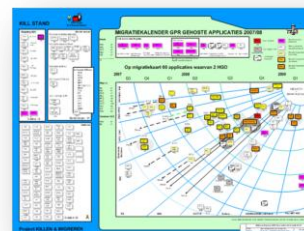
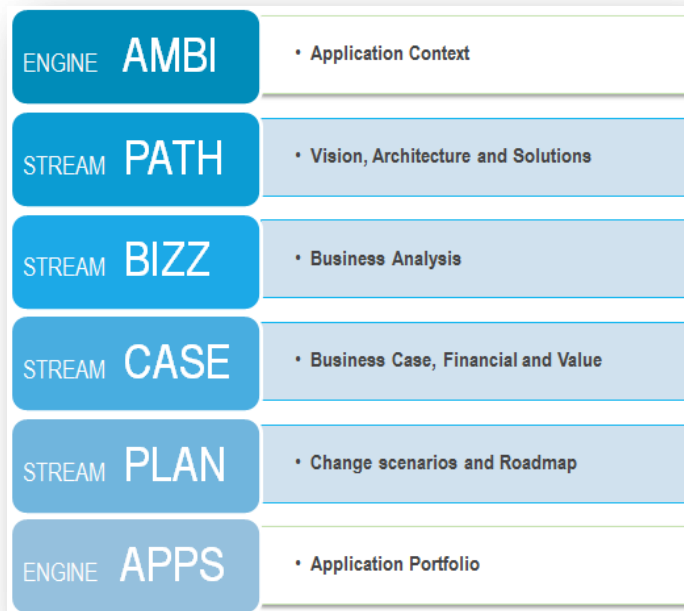


WARP1 and Legacy Lifecycle delivers

The landscape in context ...



...and the business case



A robust roadmap ...



To see all this in action and to talk to our experts please come to our

Open Day

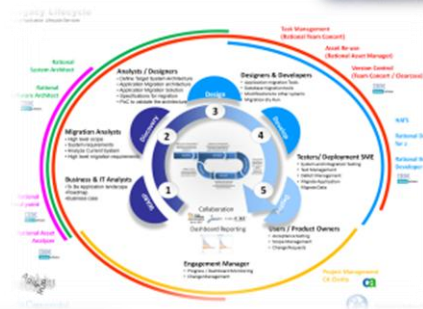
Wednesday 3rd November

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QUESTIONS



**Thank
You**

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