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Leveraging CA Gen's platform strengths

Tim Dargavel, Facet Consulting

EDGE Apac user group
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delivering strategic enterprise solutions

Who are we?

Global CA Gen services specialists

- Upgrades and Performance tuning
- Application Development and Maintenance
- Application Transformation and Modernization
- Application Architecture and Strategic reviews
- CA Gen training and Architecture Consulting

Offices in Australia and the United Kingdom

A global CA Technologies services partner.

This afternoon

CA Gen’s **strategic strength is platform independence**

- ✓ Isolates Developers from the underlying technology
- ✓ Enables applications to be deployed to new platforms

Customers can leverage this strength to **move platforms**

- ❑ A set of steps for approaching this activity
- ❑ Areas to focus on when scoping the activity
- ❑ A recommended approach with actions to take

Customers are successfully using this approach right now.

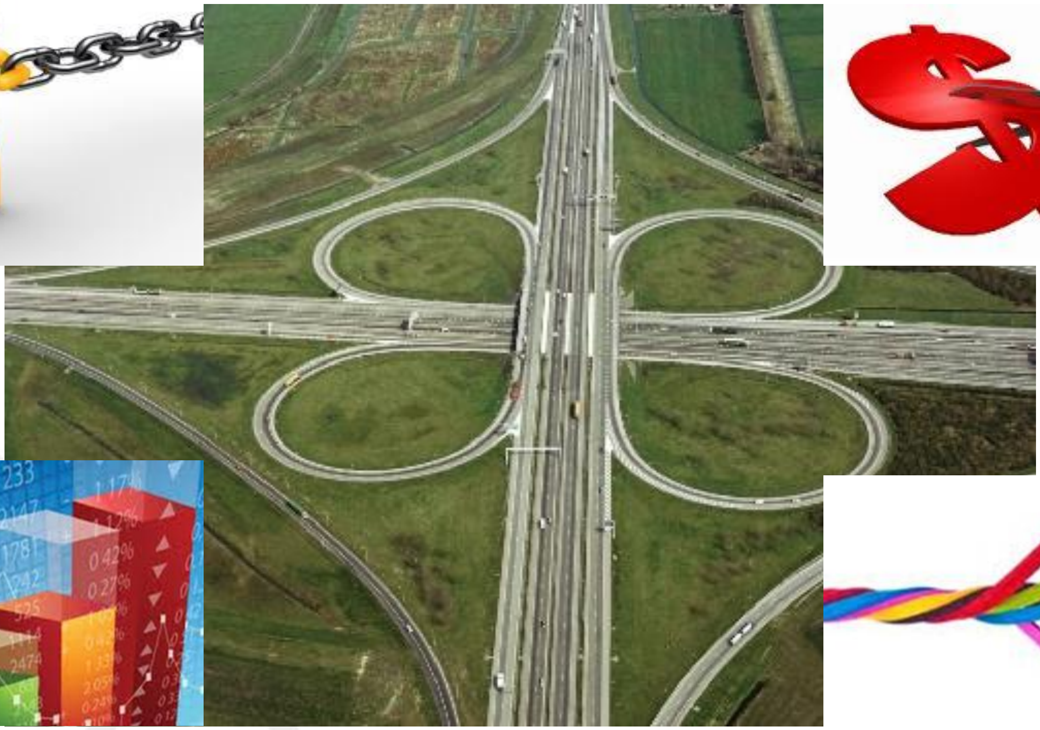
3 Stepping stones

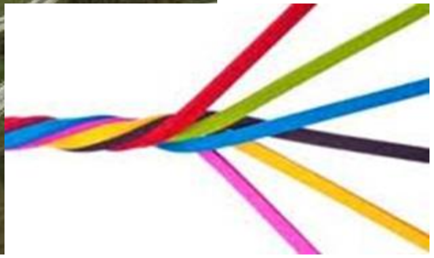
1. Understand why you need to move platform

So why change platform?

Constraints

Costs





Capacity

Risk

Drivers define the business case

Business related **IT focused**

Constraints

Costs

Capacity

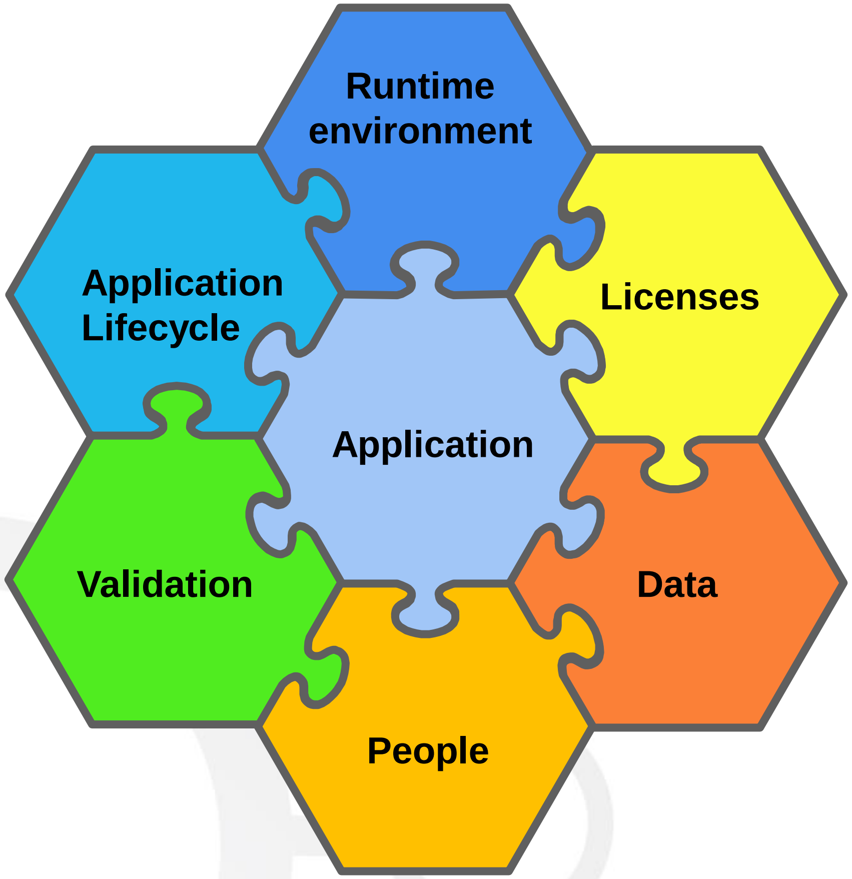
Risk

Sponsors will validate your project drivers.

3 Stepping stones

1. Understand why you need to move platform
   This defines your business case and sponsors
2. Define the scope of what would be affected

Qualify and quantify scope



Application(s) & Portfolio

Runtime environment

Software Licenses

Data – content and location

People – skills & experience

Validation – artifacts & project

Lifecycle – Processes & tools.

Qualify and quantify scope

Application(s)

- ❑ For each application, what is the
  - ❑ Size – Source & Transaction volume
  - ❑ Criticality – Business & Technical SLAs
  - ❑ Volatility – Quantity of ongoing change
  - ❑ Diversity – CA Gen and non-CA Gen
- ❑ What else is in the application portfolio?
- ❑ What external integration points exist?

Qualify and quantify scope

Runtime environment

- ❑ What is the environmental software stack?
  - ❑ Operating system
  - ❑ Database & TP Monitor platforms
  - ❑ Messaging, Security & Batch
- ❑ What application monitoring is in place?
- ❑ What are the application "hooks"?
- ❑ What customizations have been made?

Qualify and quantify scope

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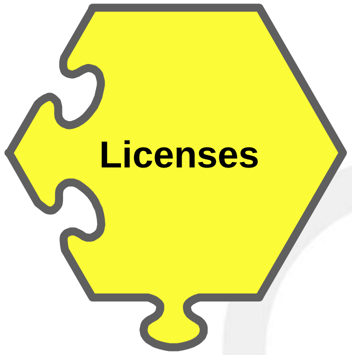
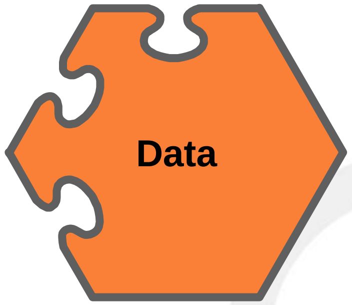


Software licenses

- ❑ Which ones do you need to keep?
  - ❑ Vendor, product and cost?
  - ❑ Current contract durations?
- ❑ What new licenses will you need?
  - ❑ What licenses can you leverage?
  - ❑ What vendors do you already have?
  - ❑ What are purchasing processes?

Qualify and quantify scope



Data – content, location and access

- ❑ What data sources are used?
- ❑ Do other applications use those sources?
- ❑ Does the data need to move platform?
- ❑ How else is the data accessed?
- ❑ What are the backup & recovery impacts?

Qualify and quantify scope

People – skills and experience

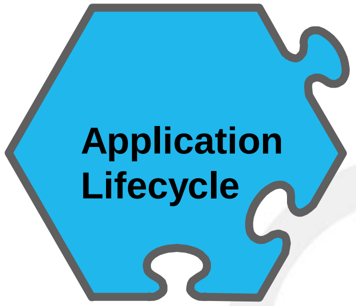
- ❑ Do you have skills on the new platform?
- ❑ Can you leverage existing skill sets?
- ❑ What happens to existing people?
- ❑ What training will your developers need?
- ❑ A critical success factor – address the FUD.

Qualify and quantify scope

Validation – does it still work?

- ❑ How is application change validated now?
- ❑ Will that approach still work going forward?
- ❑ Can that approach be used for the project?
- ❑ Do tools in use work on the new platform?
  - ❑ Formal testing tools
  - ❑ Development group scripts & utilities
- ❑ How will you prove you’re successful?

Qualify and quantify scope



Application lifecycle – tools and processes

- ❑ Will the current Encyclopedia be retained?
- ❑ What source code controls will be used?
- ❑ Will configuration management change?
- ❑ How will applications be deployed?
- ❑ Which processes will need to change?
- ❑ Who retains which authorities in releases?

3 Stepping stones

1. Understand why you need to move platform
   As this defines your business case and sponsors

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   So you can identify stakeholders and define effort

3. Start with a rapid proof-of-concept

Proving the concept

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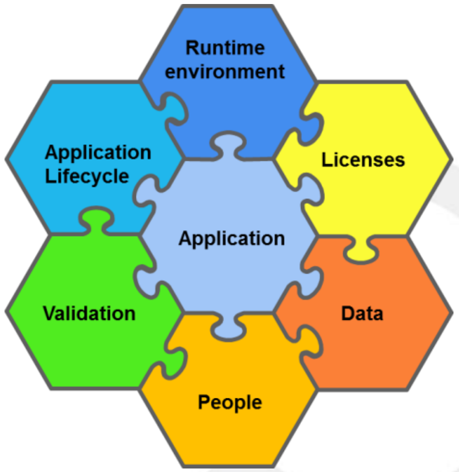
Objective
A working “sliver” of your application on the new platform

Requires
Standing up a small scale target platform
Identifying a discrete application sliver to regenerate
Creation of the database and migration of the required data
Deployment of the new application runtimes

Outcomes
Definition of where the “pain points” are
Exploration of what else is required to scale
Objective data that quantifies the business case and risks.

Proving the concept



Scope the Application

Build the Runtime environment

Obtain the Licenses

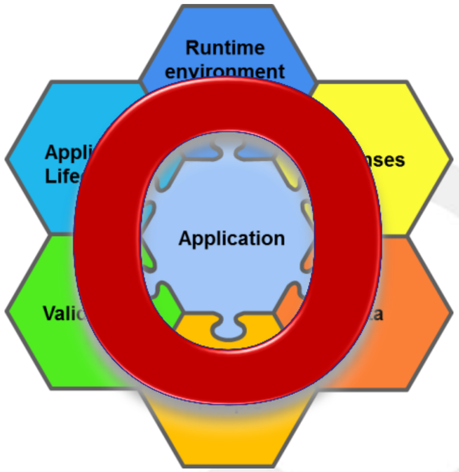
Migrate the Data

Identify the People

Determine how to Validate

Cover your Lifecycle processes.

Proving the concept - Scope



Scope the Application

Needs to be representative of complexity

Needs to be reasonably self-contained

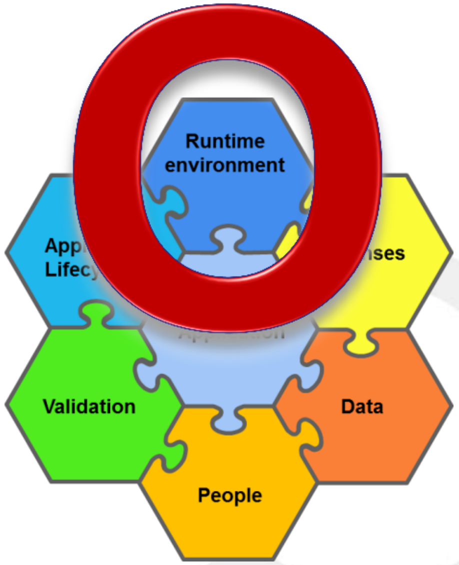
Needs to utilize self-contained data

Needs to deliver the principle UI

Include a small number of EABs

Caution on external integration.

Proving the concept - Runtime



Build the Runtime environment

Has to be operational - but not production

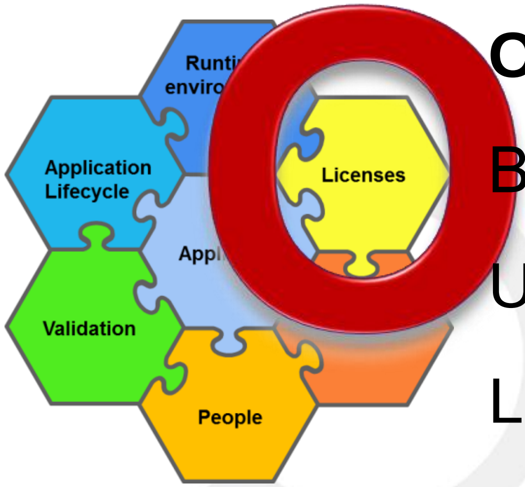
Utilize, or build as, an isolated “sandbox”

Emphasize operational over scalable

Ideally, use supported software versions

- ❑ Compilers
- ❑ Databases
- ❑ Web and Application servers, etc.

Proving the concept - Licenses



Obtain the software licenses

Beg and borrow what's necessary

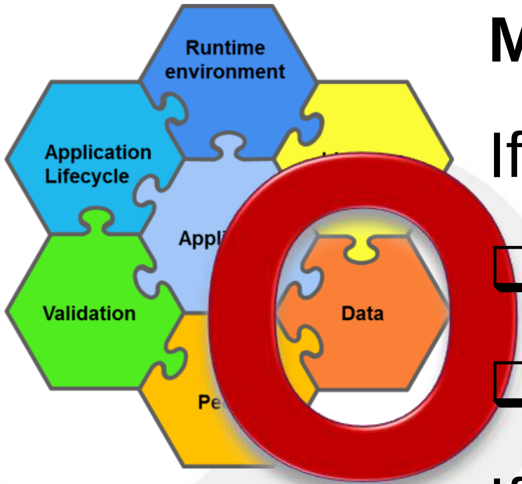
Use trial licenses from vendors

Leverage existing Enterprise licenses

Explore supported Open Source options

Use the "consumer versions" for POCs.

Proving the concept - Data



Migrate the data

If the database server is separate, then

- ❑ Understand concurrent access
- ❑ Identify the appropriate database

If the database will be ported also, then

- ❑ Identify skills to stand up the software
- ❑ Generate the DDL for the database
- ❑ Identify your data transfer mechanism.

Proving the concept - People

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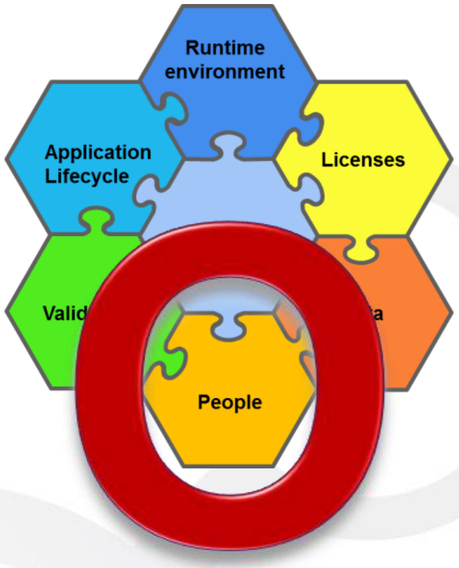


Identify the People

You'll need different infrastructure skills

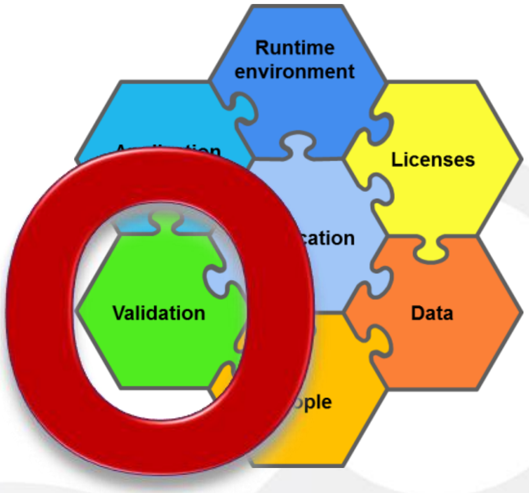
- ❑ Operating system
- ❑ Software installation and configuration
- ❑ Databases and Application servers
- ❑ EABs and source code control

Borrow the skills you need – short term

Find those skills within your own teams

The right people make ALL the difference!

Proving the concept - Validation



Work out how to Validate

For the POC application sliver

- ❑ What test scripts can be re-used
- ❑ What database matching can be done

What constitutes success for the POC

- ❑ Functional application results?
- ❑ Underlying data integrity?
- ❑ Performance, integration, load levels?
- ❑ User interface equivalence/standards?

Proving the concept - Lifecycle

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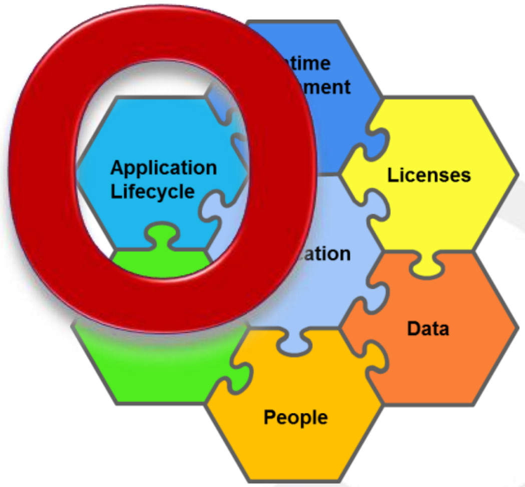

Cover your Lifecycle processes

Cut a separate set of models

Potentially, build a new Encyclopedia

Install supporting tools you currently use

Identify and trial the new tools you need

Define the new source code management

Execute an application change cycle

Identify improvements over current.

Proving the concept

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- ✓ The "working" application exists only to prove the concept
  - ❑ Do **NOT** expect to utilize the sandbox as Production
  - ❑ Emphasize workable over ideal
  - ❑ *Quick and Dirty* is ok… but keep track of the shortcuts you take
- ✓ Deliver the data to quantify your business case
  - ❑ A pound of walk is worth a ton of talk
  - ❑ An outcome you can point to answers questions and doubters
- ✓ A successful POC is only the start of the journey.

3 Stepping stones

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1. Understand why you need to move platform
   As this defines your business case and sponsors
2. Define the scope of what would be affected
   So you can identify stakeholders and define effort
3. Start with a rapid proof-of-concept
   Provide the data to make informed decisions.

Recommendations

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1. No "sacred cows" – ask the obvious/difficult questions
   - ❑ "The mainframe is more expensive" - Compared to what?
   - ❑ "It'll be quicker to rewrite" – How long, how much, compared to?
   - ❑ "What <u>really</u> happens if we do nothing?" – The default state
2. Identify all the drivers to identify your sponsors
3. Use a short and sharp POC – 1-3 folks for 1-3 months
4. Use POC iterations to expand scope and learn lessons
5. Each iteration justifies proceeding further, or stopping.

Discussion

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Thanks!

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tim.dargavel@facet.com.au

+61 417 009-311 (AU)
+61 7 3010-6001 (direct)

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