

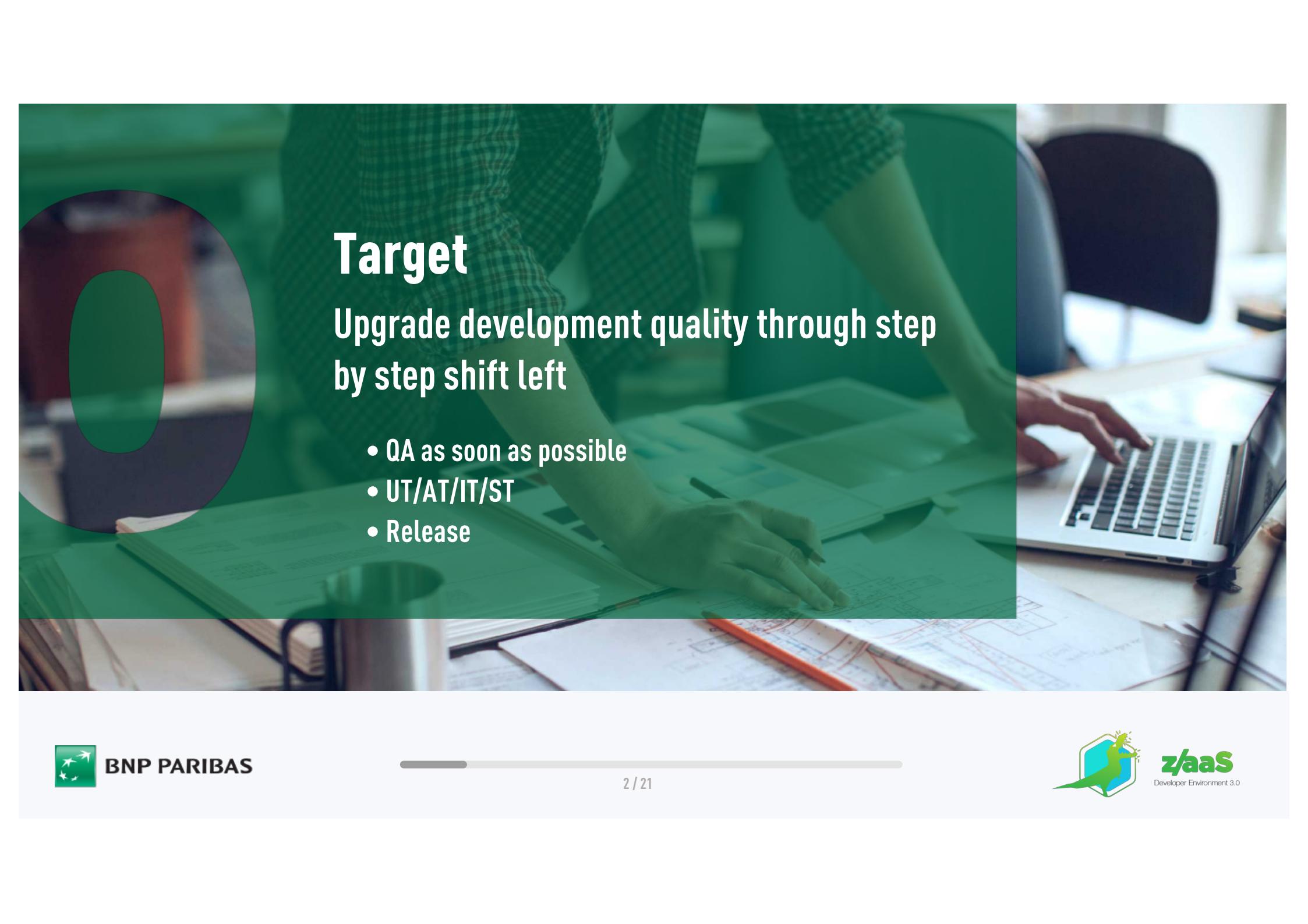
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DEVOPS Brown Branch BDDF-IT



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Developer Environment 3.0



Target

Upgrade development quality through step by step shift left

- QA as soon as possible
- UT/AT/IT/ST
- Release

Challenges



For service providers, monitored autonomy and means to adapt their internal process to their own organization on their activities



Autonomy
of Development
teams of each
provider



Responsibility
enhanced and well
defined for each
participant of the
global process



Simplification
for Development
and Testing



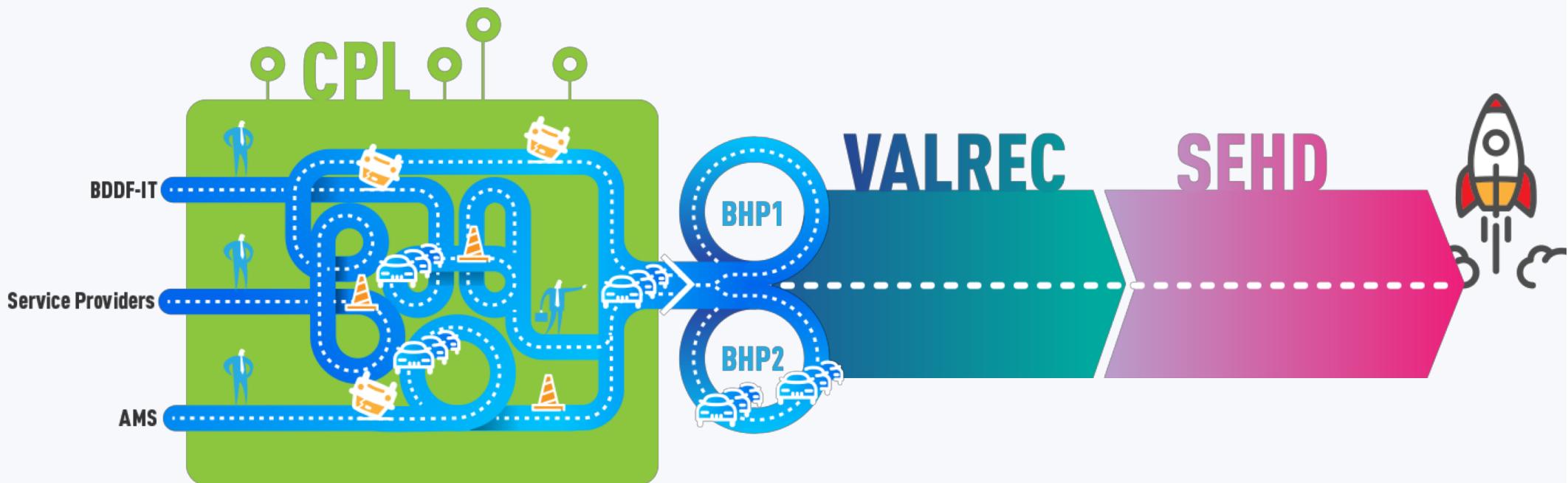
Convergence
of Development
realms



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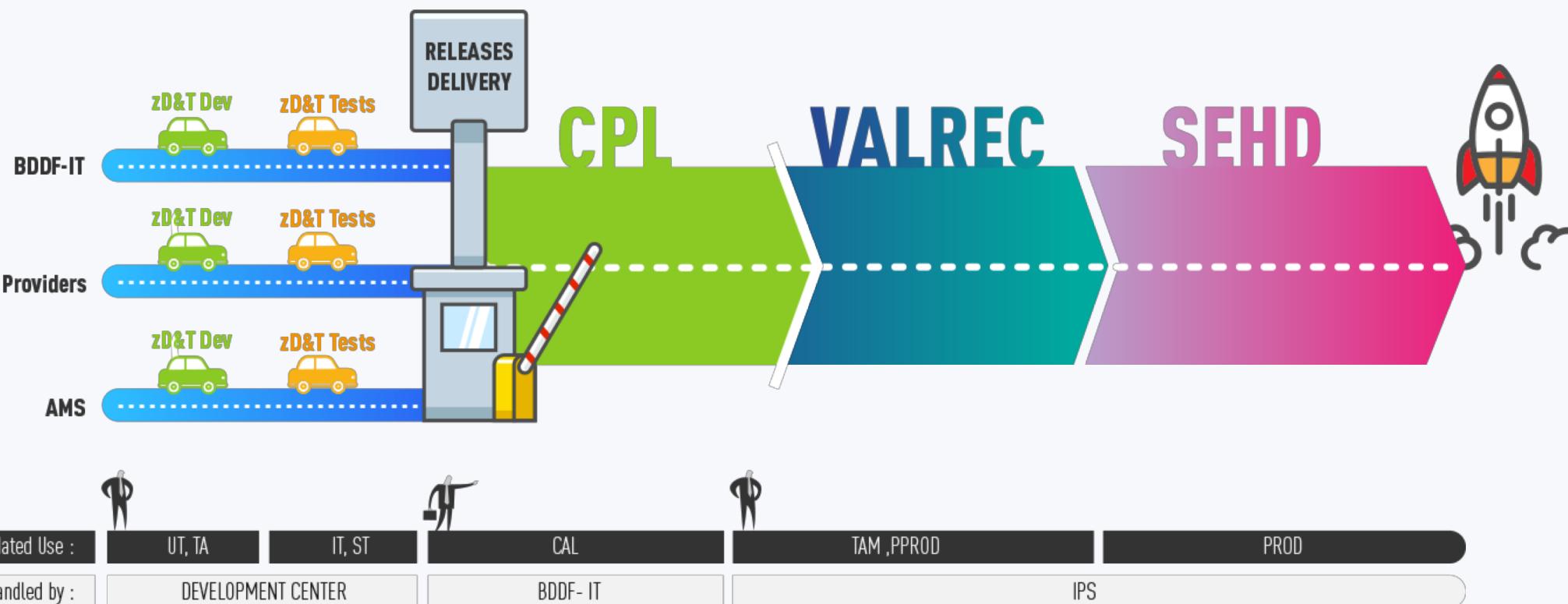


Current workflow



Planned use :	UT, AT	IT, ST	UAT, PPROD	PROD
Actual use :	UT, AT	- - -	AT, IT, ST, UAT, PPROD	PROD

Planned workflow



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Target solution's operating scope

One instance



For every Service Provider and every AMS



Per internal Development Center



On demand for special uses :

- Technical projects like CB6, DL1 or WAM Migrations
- Specialized testing (data aging, ...)



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Target solution's operating scope

For BDDF-IT



Providing new means to drive developments



Technical quality approval of release stream



Produce certification tests to rule release stream's acceptance

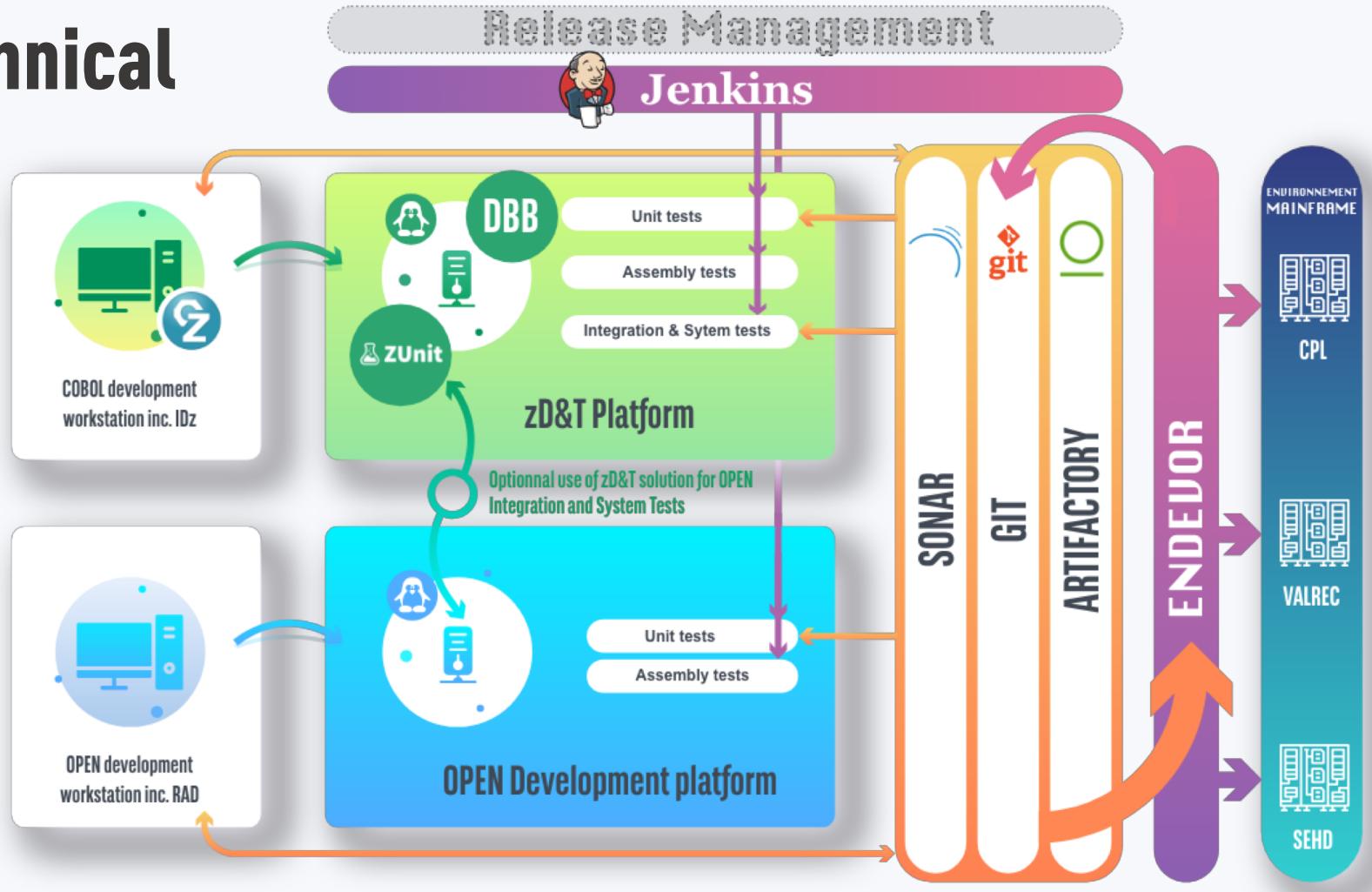


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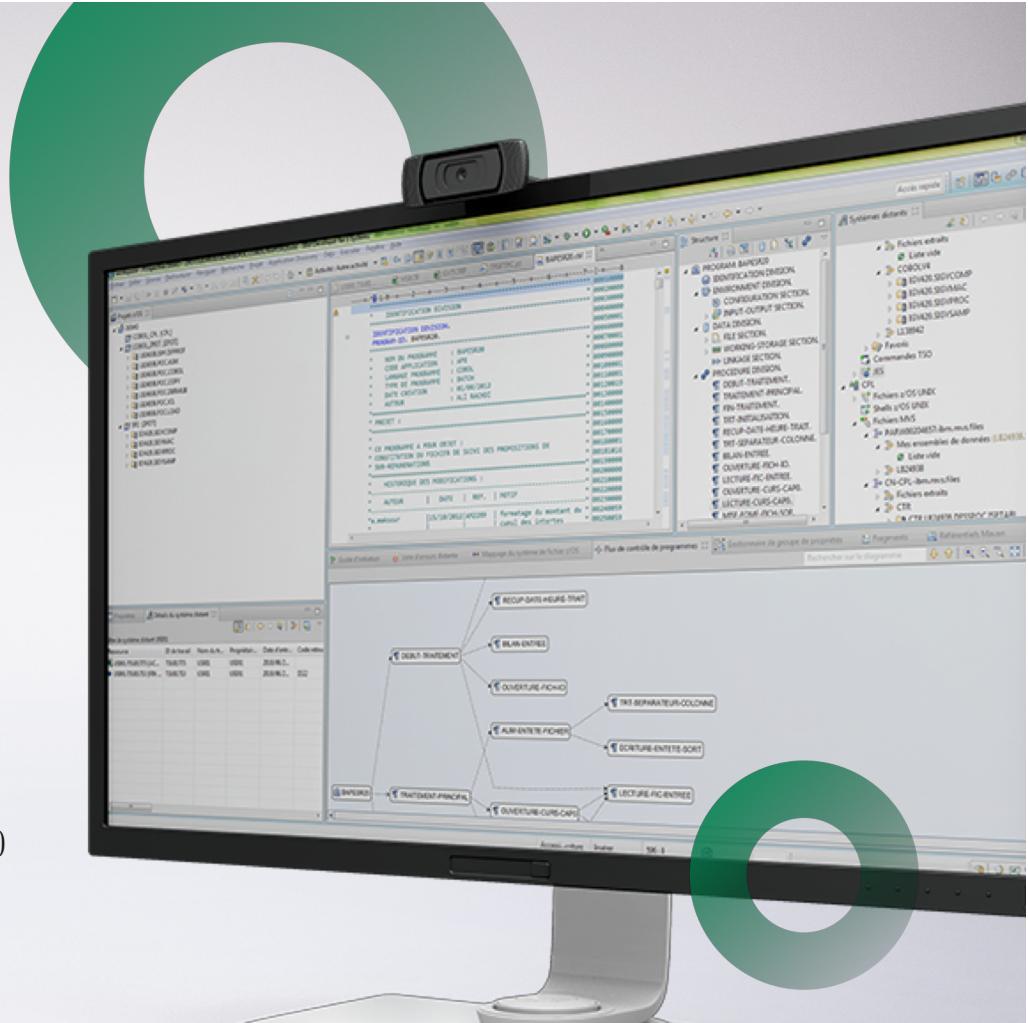
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Target technical Diagram



Technical content

- Modern IDz development workstation
- Identical SCM with OPEN (GIT)
- Continuous Integration Platform
- Release Management Tool in order to manage deployment
- Simple impact analysis tool added to available CPL tools (XINFO, ISM, ...)
- Parallel development implementation (pipelines)
- Samples backup/restore/extract/archive tools
- Four available « logical » environments : UT, AT, IT/ST
- Addons to solution :
 - EGEN (whose JCLs will be enriched with test occurrence metrics)
 - Interaction with Application Reference ENDEVOR

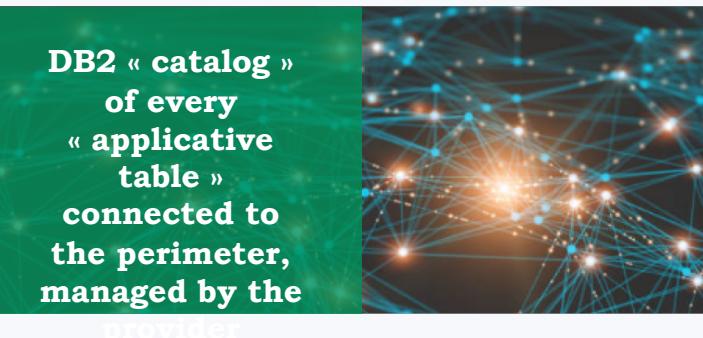


Applicative content per provider

One instance includes



For tests runs,
each instance is completed by



In order to manage delivery from the community as an applicative staging approach, BDDF-IT must share the community release roadmap. Must provide matching organization

Documentation management

Applicative

Stakes :

To run a Documentation Configuration Manager that removes the layering of its content (Excel, Word, RSM, ALM, Confluence)

Chosen solution must comply with 2 major criteria :

Versioning : capacity to dispose of working version, versionned references, matching to the applicative development plan

Documentation must be a deliverable to BDDF-IT, this included in the release stream of BDDF-IT



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Further actions

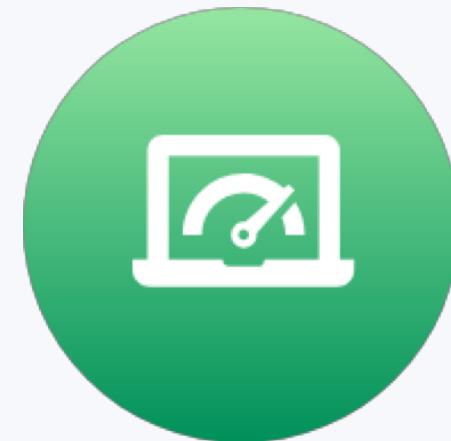
Recommended providers Organization



Set up of a technical office role



Role formalization



Define and follow the technical office's continuation through time



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Further actions

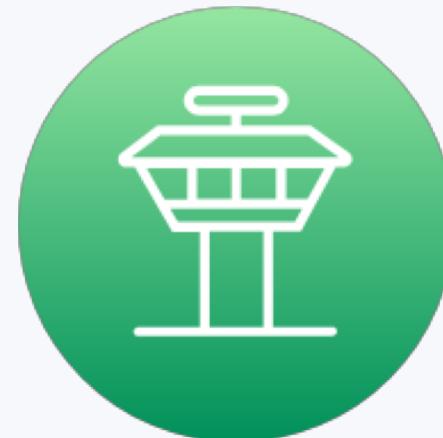
For BDDF-IT



**Thoroughly define and
secure respect of CAL
process**



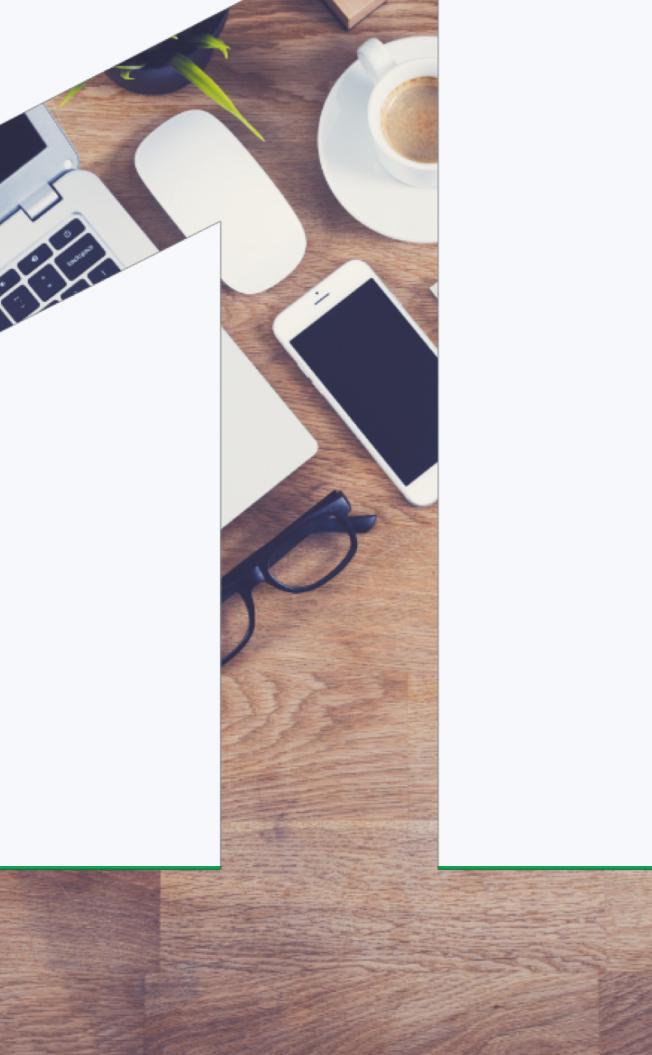
**Enrich code and batch
architecture quality
rules**



**Define and manage
« inevitable » exemption
mechanism**



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Summary : benefits

Autonomy and responsibility
enhanced for providers



Summary : benefits

OPEN/MAINFRAME processes
and tools convergence



Summary : benefits

Autonomy and simplification of
test cases management



Summary : benefits

Modernized desktop for
mainframe developers



Summary : benefits

A local, adaptable and
completely agile SCM



Summary : benefits

A Release Management tool



Summary : benefits

A single code control made as soon as possible



Summary : benefits

A CI Platform (Quality control,
Automated testing, AT-based
deployment)



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Developer Environment 3.0 Planning

