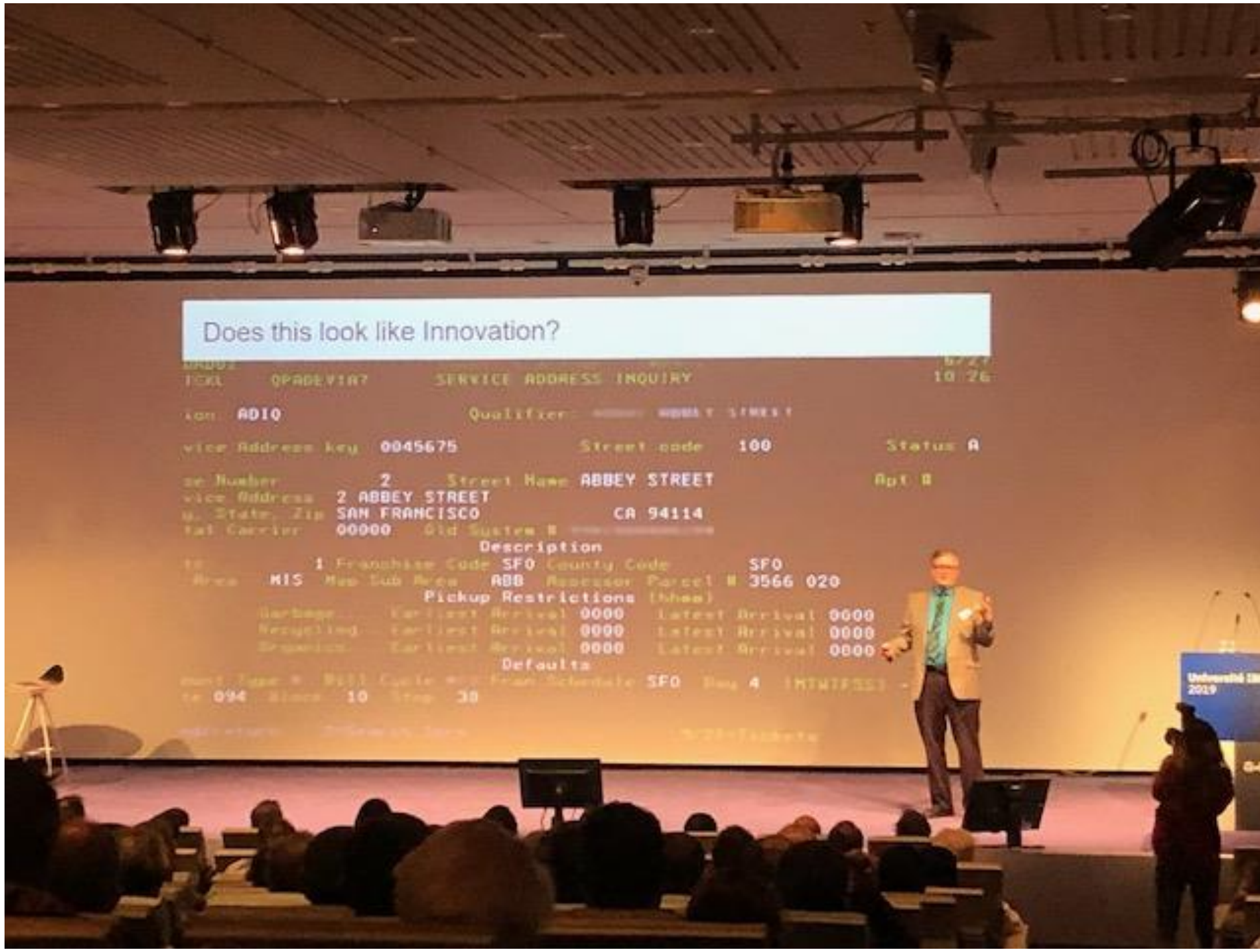


ALM, DevOps et développement Agile

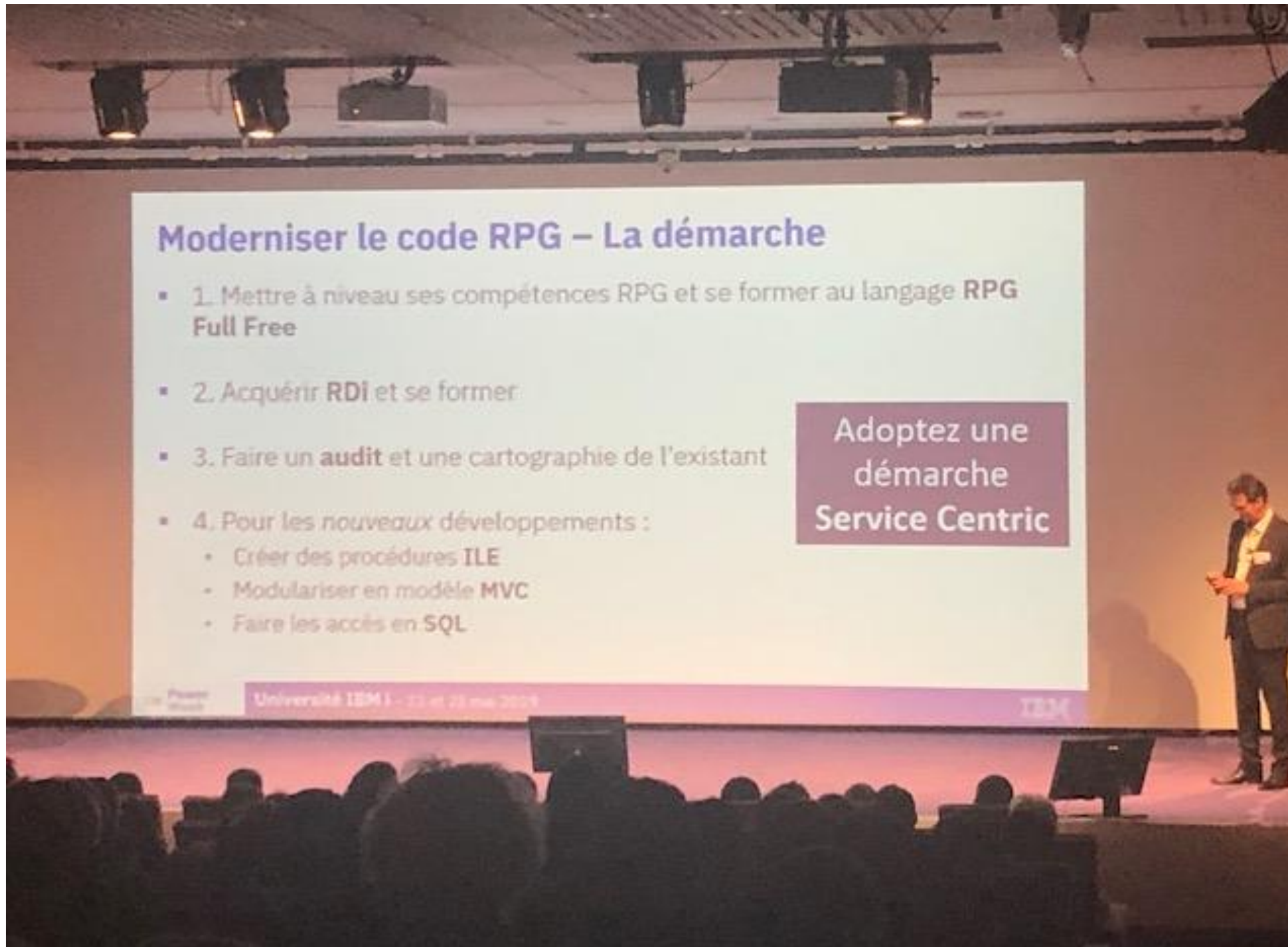
Université IBMi 2019





Does this look like Innovation?

```
09:00:00 09:00:00 09:00:00 09:00:00 09:00:00 09:00:00 09:00:00 09:00:00 09:00:00 09:00:00
TXL  09ADEV1R7  SERVICE ADDRESS INQUIRY  6727  10:26
lon  AD10  Qualifier:  ABBEY STREET
vice Address key  0045675  Street code  100  Status  A
ze Number  2  Street Name  ABBEY STREET  Apt  B
vice Address  2 ABBEY STREET
u. State, Zip  SAN FRANCISCO  CA 94114
tal Carrier  00000  Old System  B
Description
1 Franchise Code  SFO County Code  SFO
Area  MIS Map Sub Area  ABB Assessor Parcel # 3566 020
Pickup Restrictions (show)
Garbage  Earliest Arrival 0000  Latest Arrival 0000
Recycling  Earliest Arrival 0000  Latest Arrival 0000
Special  Earliest Arrival 0000  Latest Arrival 0000
Defaults
mont Type  B Mill Cycle  100 Fran Schedule  SFO Day 4 (MTWTFSS)
re 094 Block  10 Stop  30
addr name  215 New St, San Francisco, CA 94102-3400
```



Moderniser le code RPG – La démarche

- 1. Mettre à niveau ses compétences RPG et se former au langage **RPG Full Free**
- 2. Acquérir **RDI** et se former
- 3. Faire un **audit** et une cartographie de l'existant
- 4. Pour les *nouveaux développements* :
 - Créer des procédures **ILE**
 - Modulariser en modèle **MVC**
 - Faire les accès en **SQL**

Adoptez une
démarche
Service Centric

Université IBM I - 22 et 23 mai 2014

IBM

Moderniser le code RPG – La démarche

- 5. Pour la maintenance de *l'existant* :
 - Convertir le RPG en RPG Full Free
 - Si Adelia ou Synon :
 - Evaluer les évolutions récentes de ces AGL
OU
 - Convertir le code L4G en RPG Full Free
 - Restructurer
 - Faire les accès en SQL
- 6. **APIser** la logique et les accès à DB2
- 7. Adopter une démarche et un outillage DevOps

Adoptez une
démarche
Service Centric



DevOps et Dev Agile sur IBM i: pourquoi et comment?

- Pourquoi Dev Agile et DevOps vont de pair et comment le mettre en place?
- Témoignage Jonathan Croft, CIO de la Société Générale Factoring
 - Pourquoi SG Factoring a pris la décision d'implémenter une solution de gestion du Cycle de Vie Applicatif (ALM) ?
 - Dans quels cas il est primordial de s'appuyer sur une solution d'ALM et de DevOps ?
 - Quels sont les bénéfices apportés attendus et inattendus?
- Exemple d'un cycle de vie avec des changements applicatifs dans un domaine applicatif métier

Qu'est ce qui change?



Speed

Amazon: Updates every 11 seconds
Walmart: 30,000 changes/month
Agile & Iterative Development
Continuous Integration



Complexity

Mainframe, Windows, Web, Mobile, BYOD, New Tech



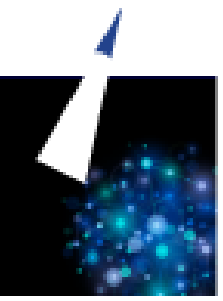
Security/Auditability

PCI, SOX, HIPAA, FDA, BASEL, CMMI



Risk

Transfers
Network Access
Instant Updates
BYOD



Les objectifs du dev Agile et du DevOps

- Mettre a dispo plus de fonctionnalitees applicatives utiles aux métiers plus souvent, plus rapidement
- Ce que les métiers demandent et ont réellement besoins (et non ce que l'IT pense qu'ils ont besoins)
- Etre au courant de la progression et de la disponibilité des nouvelles fonctionnalités
- S'assurer que les choses que l'on livre fonctionnent reellement (reduire le risque d'erreur)
- Etre sur que ce qui est livré est ce qui a été créer (en livrant tous les composants au bon endroit)
- Etre en phase avec les auditeurs a qui l'on peut garantir le contenu et l'objet des livrables.



Etre AGILE c'est etre plus rapide et s'adapter plus vite

- Livrer des changements plus petits mais plus vite
- Avec des Iterations
- Avec une Integration Continue
- Avec une Visibilité complete

Etre Agile c'est cultiver le Changement!



Et grace une stratégie ALM et DevOps ce sont

- Des risques maîtrisés, des MEP sereines.
- Des normes respectés= des audits paisibles
- Des projets livrés qui correspondent aux besoins des métiers et dans les temps impartis
- Un avantage compétitif
- Des équipes satisfaites

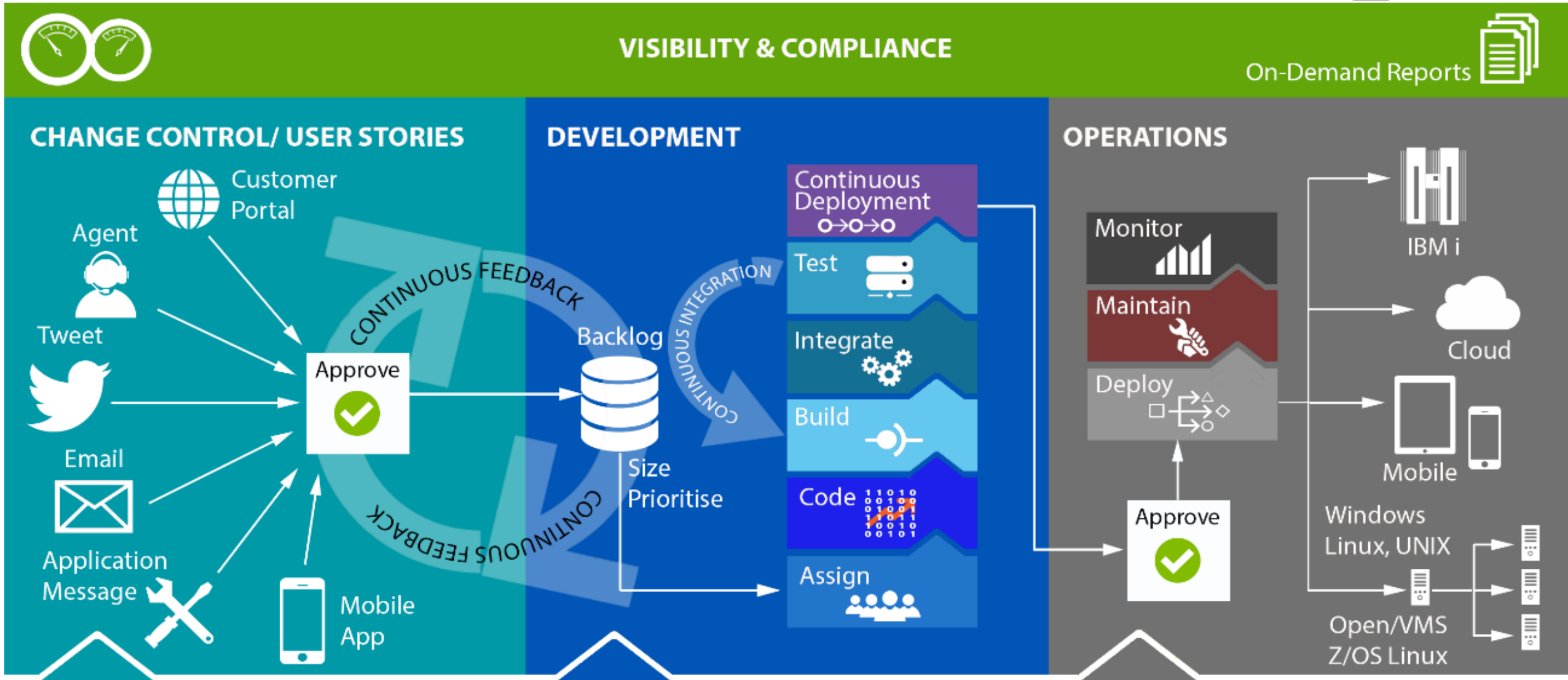
Le probleme c'est qu'aujourd'hui les contraintes s'accumulent

Il faut etre Agile oui mais

- L'IBMi n'est plus isolé
- Il faut casser les silos de Dev
- Les règles sont de plus en plus strictes (Audit, Sécurité)
- Downtime de plus en plus réduit

Il faut donc

Definir un processus contrôlé et automatisé






3rd Party Tools: Such as ServiceNow, Jira, Rational ClearQuest, HP ALM - Quality Center, BMC - Track-It

3rd Party Tools: Such as Git, SVN, Eclipse, Visual Studio, Maven, Jenkins, Ant, Bamboo, JUnit, CA DevTest, Adobe PhoneGap Build, LegaSuite Workbench

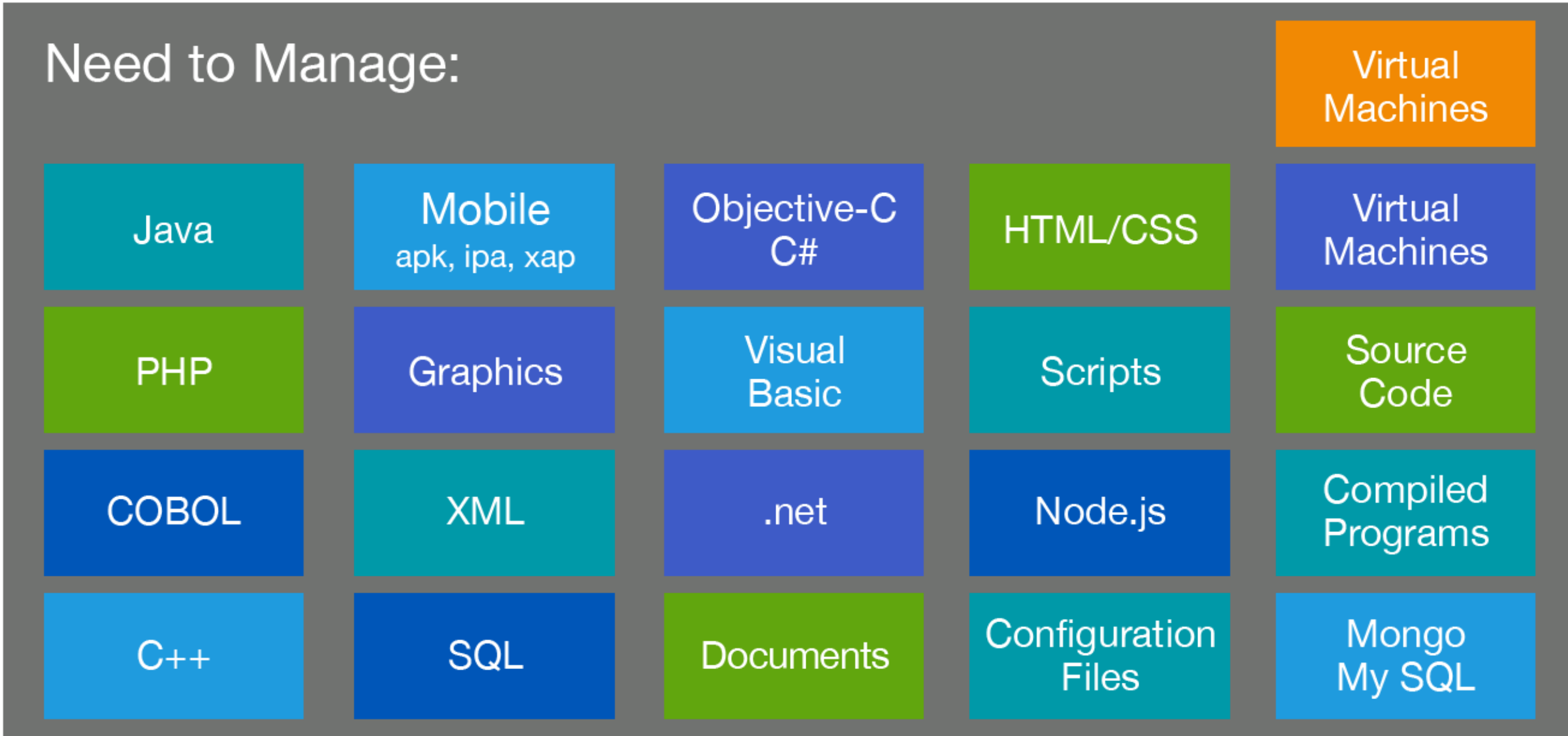
3rd Party Tools: Such as AWS CodeDeploy, Puppet, Chef, Tomcat, SQL Server, Websphere Application Server, Oracle

Avoir une vue logique afin de faciliter l'interaction avec les metiers

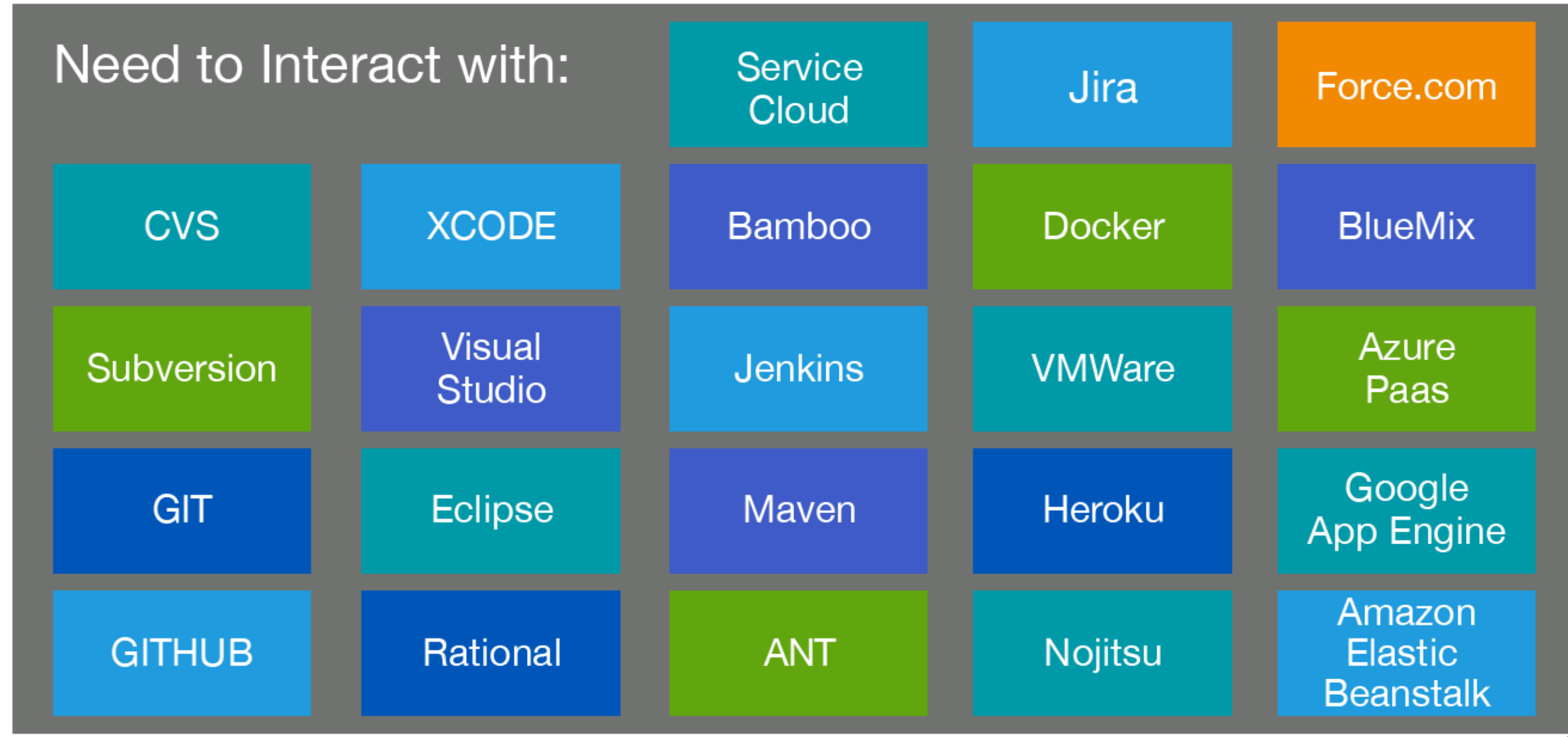
 <p>Groups</p>	 <p>Applications</p>	 <p>Releases</p>	 <p>Tasks</p>
Financials	AP Payroll HR GL	Base New York London Tokyo	Fixes Reports Features

Allows Operations & Business Users to Participate

Decomplexifier:



Etre Open

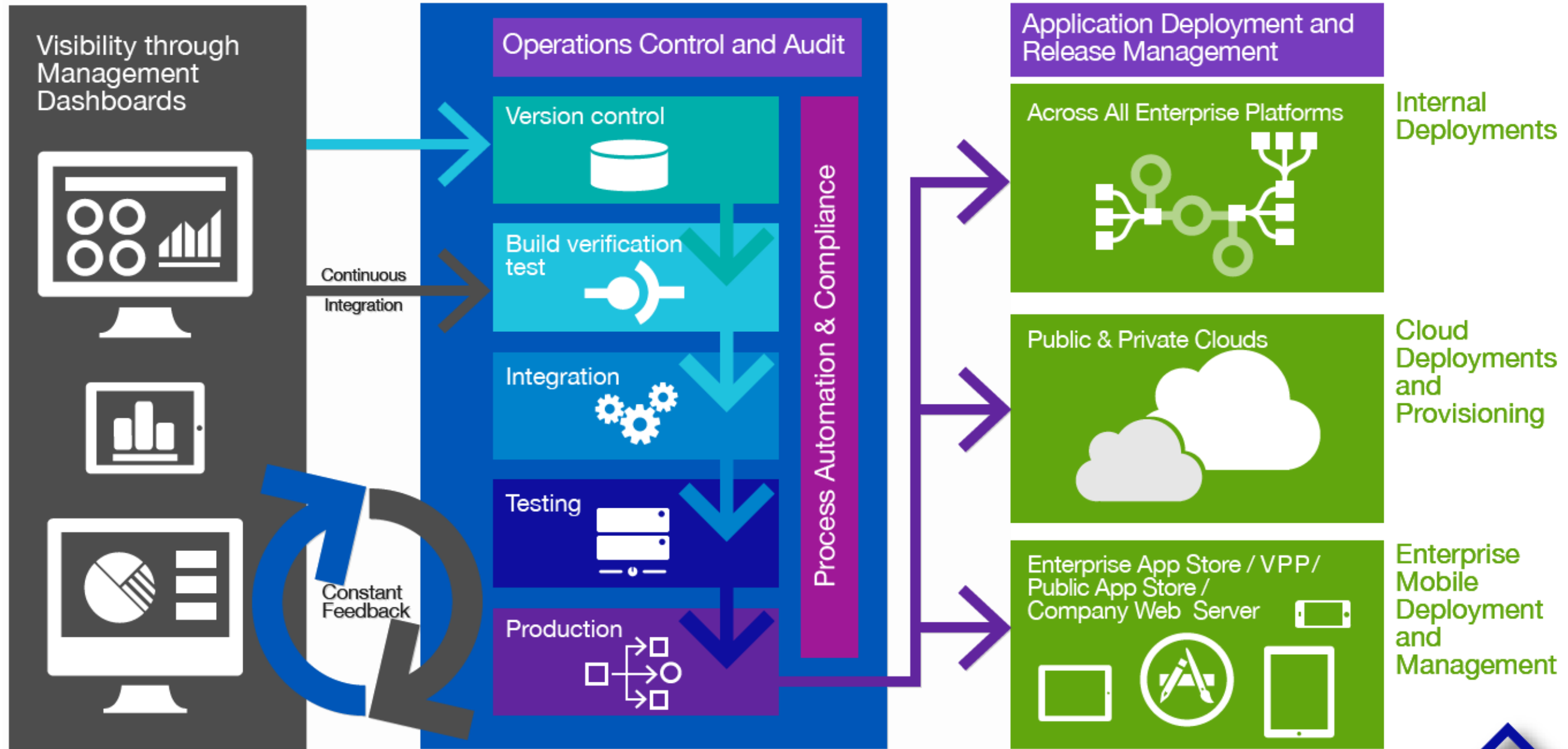




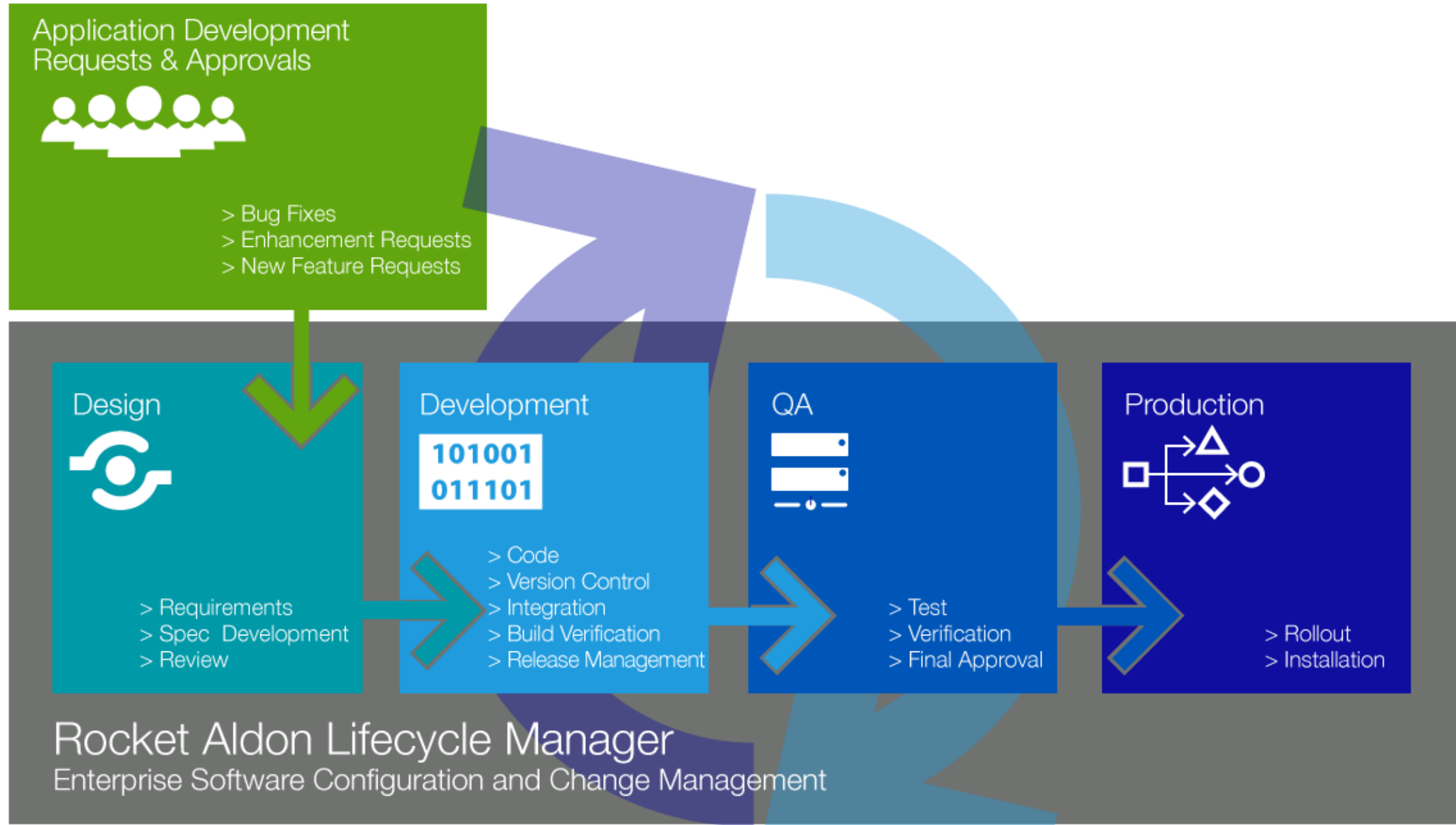
Rocket Lifecycle Manager IBMi et Enterprise



“Pluger” vos outils et Automatisez votre ALM



Nous définissons avec vous les processus que vous souhaitez automatiser



Aldon RSE - IBM Rational Developer for System i

File Edit Navigate Search Project Run Window Help

Remote Systems Team

Outline An outline is not available.

Remote System Details Tasks Object Table Commands Log Job Status Aldon Status

"Aldon LM() Filter" Warehouse Payroll Mainline

Name	Obj Type	Attribute	Environ	Conflicts	Developer	Group	Application	Re
ACTGLP.file.pf	*FILE	PF	P			WAREHOUSE	PAYROLL	BA
ARS333CL.pgm.clp	*PGM	CLP	P			WAREHOUSE	PAYROLL	BA
ARS333DS.file.dspf	*FILE	DSPF	P			WAREHOUSE		BA
ARS334CBL.pgm.cbl	*PGM	CBL	D P		CHARLES	WAREHOUSE		BA
ARS334CPY.srcmbr.txt	*SRCMBR	TXT	P			WAREHOUSE		BA
ARSMESSAGE.msgf	*MSGF		P			WAREHOUSE		BA
CNVTAFILE.table.sql	*TABLE	SQL	P					BA
CONVERT.file.pf	*FILE	PF	P					BA
FUNCTN_EXTERNAL.fun...	*FUNCTN	SQL	P					BA
FUNCTN_SQL.srvpgm.de	*SRVPGM	CLE	P					BA
HELLO1.srcmbr	*SRCMBR		P					BA
HRM0001CLP.pgm.clp	*PGM	CLP	P					BA
INDEX_LONG_NSRC.ind...	*INDEX	SQL	P					BA
ITEMP1.table.sql	*TABLE	SQL	P					BA
JRBODSLF.file.lf	*FILE	LF	P					BA
JRBSAVF.file.savf	*FILE	SAVF	D					BA
JRBSQLTBL.table.sql	*TABLE	SQL	P					BA
MASTER.file.pf	*FILE	PF	P					BA
NEWCLP.pgm.clp	*PGM	CLP	P					BA
OBJONLY.file.pf	*FILE	PF	P					BA
PAYMSGF.msgf	*MSGF		P					BA
PROCE00001.pgm.cle	*PGM	CLE	P					BA
READRPG.pgm.rpg	*PGM	RPG	D					BA
REFMASTER.file.pf	*FILE	PF	P					BA
SAMPLE.srcmbr	*SRCMBR		P					BA
SCMPOEMO2A.pgm.rpg38	*PGM	RPG38	D					BA
SPSTATECD.proc.sql	*PROC	SQL	P					BA
SQL_TRIGGER.trigger.sql	*TRIGGER	SQL	P					BA

Properties Remote Scratch...

Property	Value
Application	PAYROLL
Attribute	DSPF
Conflicts	
Developer	
Environ	P

Apply Patch...
Synchronize with Aldon LM...
Add
Check Out
Check In
Cancel Check Out
Delete Folder from Aldon LM(x)
Get Latest Version
Force Get Latest Version
Refresh Status
Promote from ITG
Promote from QJA
Select Aldon LM() Version to Browse ...
Compare Aldon LM() Versions ...
Show Aldon LM() Dependencies
Retire Object from Aldon LM() ...
Create Object (System i compile)
Set Aldon LM() User Defaults
Set Part Description
Share Project...

Open With
Validate
Analysis
Team
Compare With
Replace With

Acces central a tous les composants du domaine metier

Rocket Aldon Lifecycle Manager

App Explorer | Tasks | Import Packages | Deployments | Hello davidr | ? help | → Logout

Service: LM(e) | Order By: Name | Date | Selected | Last Update 46:50 | Refresh

Groups | 139 results

Info	Name
i	#testVM (1)
i	&VMtest (1)
i	@JS_Jan19 (2)
i	@JS_March21 (1)
i	@JSNov6 (5)
i	AFFP050710 (0)

Applications | 2 resul

Info	Name
i	Build (1)
i	Mixed (4)

Releases | 4 results

Info	Name	Date
i	BLD(1.0.0)	Jan 19, 2012
i	Rel(1.0.0)	Sep 11, 2012
i	Rel(1.55)	Nov 7, 2012
i	Rel(1.88)	Nov 7, 2012

Une interface DevOps type Agile

Rocket
Aldon Lifecycle Manager

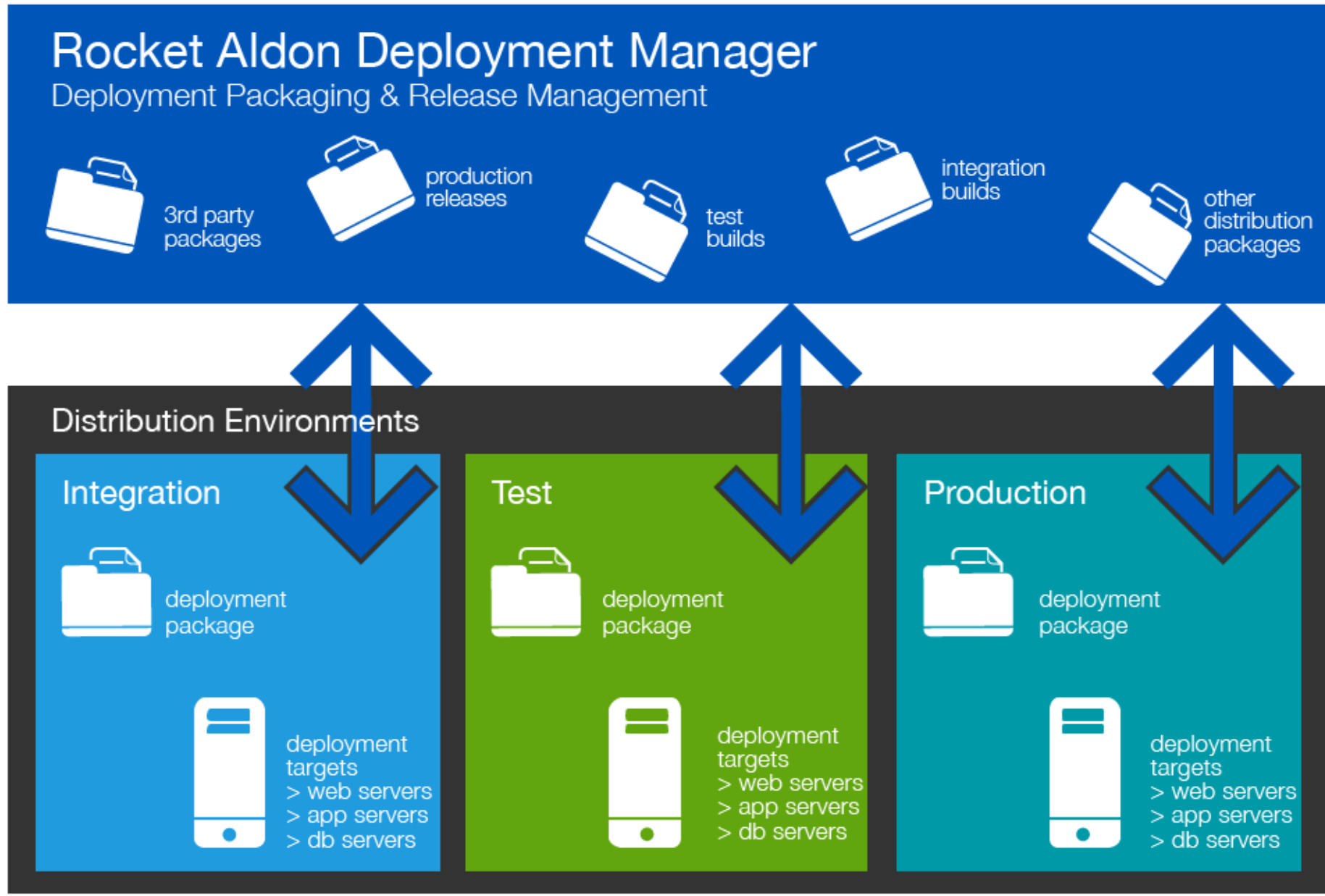
App Explorer | **Tasks** | Import Packages | Deployments | Hello davidr | ? help | → Logout

Service: LM(e) | Order By: Name | Date | Selected | Filter: Filter here... | Last Update 49:18 | Refresh

Filter by Releases | Hide Empty Environments | Requests to Promote

IMP 28 Results	STG 1 Result	CZU 2 Results	UNT 145 Results
<input type="checkbox"/> 123456789012345678901234... long task name task ID 33289 10/20/2015 1 Parts	<input type="checkbox"/> MyParent ID 28740 10/20/2015 1 Parts	<input type="checkbox"/> ALWP1704LOL1 connect lmi task empty ID 33446 10/20/2015 1 Parts	<input type="checkbox"/> !~@#\$\$%&%*(
<input type="checkbox"/> bdtask01 ID 33213 10/20/2015 1 Parts		<input type="checkbox"/> ALWP1704LOL2 connect lmi task will be finished ID 33447 10/20/2015 1 Parts	<input type="checkbox"/> 1652-02 Here is a long descri task info popup 10/20/2015
<input type="checkbox"/> BldRIs_TK1 ID 32297 10/20/2015 4 Parts			<input type="checkbox"/> 2Sep15_TK1 10/20/2015
<input type="checkbox"/> caribou ID 32606			<input type="checkbox"/> 3Feb15_TK1

Automatisation du Deploiement



- Central deployment
- Release scheduling
- Package components
- Check target integrity
- Distributes and install
- Run scripts
- Import and Export Files, Programs and Data Dictionary Items
- Recover from failure
- Verification

Une Console DevOps pour les MEP

Rocket® ALM Hub

[Help](#) | [Logout](#)

- Home
- App Explorer
- Tasks
- Import Packages
- Deployments

LM(e) Deployment Set Details

0 minutes ago Refresh

Deployment Set

Name: D00010062

Description: Ad Hoc JUANM 2011-06-16 11.16.54

Environment Name: INV

Deployment Profile Name: JUANM

Status Last Changed: 2011-06-16 18.16.54


Part Count: 2821 [Report](#)

COMPLETED:
The actions requested have completed successfully.

Recover
Cancel

Computer Name: Target Name

Target Name	Deploy	Install	Skip Target	Cancel Target
RD-TEST-1:multiple targets	✓	✓		
RD-TEST-1_2:multiple targets	✓	✓		
RD-TEST-1_3:multiple targets	✓	✓		
RD-TEST-1_4:multiple targets	✓	✓		



Et les Audits interne et externe
(PCI, Basel, SOX, ...) et la
conformite type RGPD?

LM(e) Release Summary

Promotion Path: **Development** → **UNT** → **QUA** → **INV**

Details

Properties

Release has notes YES NO

Release activated YES NO

Changes to parts allowed YES NO

Promote with release code YES NO

Last change date: 2014-01-29

Process documentation embedded in the system. No need to maintain separate documents!

Moved to Production Process

Checkouts

Multiple checkouts allowed YES NO

Comment required to checkout YES NO

Task required to checkout YES NO

Current multiple checkouts: 0

Total emergency checkouts: 0

Total checkouts: 60

Acknowledgment conditions deleted: 0

Acknowledgments not deleted: 0

Checkins and Promotions

Request required to checkin YES NO

Request required to promote to test YES NO

Request required to promote to inventory YES NO

Checkin requests pending: 0

Promote to test requests pending: 0

Promote to inventory requests pending: 0

Activity Summary

Task Summary

State:

State	Closed	Total
Tasks:	0	9

[View task assemblies associated with release >>](#)

Process Rules

Activity Log Summary

First Entry	Last Entry	Count
2013-12-03	2014-01-29	519

[View activity summary for release >>](#)

LM(i) Permissions by User



Report Parameters:
User or Class/Scope: *ALL/*ALL

Authority Type: User or Class & Definition Level	Authority Source: User or Class & Definition Level	User Authority Level: Global (*ALL), Named Application or Release	Request Checkout	Perform Checkout	Request Promote From DVP	Perform Promote To ITG	Request Promote From ITG	Perform Promote To QUA	Request Promote From QUA	Perform Promote To PDN	Request Promote To Parent	Perform Promote From Child	Request Install Live From ITG	Perform Install Live From ITG	Request Install Live From QUA	Perform Install Live From QUA	Request Install Live From PDN	Perform Install Live From PDN	Restore From Archive	Perform Emergency Checkout	Maintain Deployment Sets	Perform Deployments	Work with Global Definition	Add Application	Work with App Definition	Work with Release Definition	Add Release	Delete Production Objects	Change Object Data Option	Clear Conflict	Clear Acknowledgement	Work with DataSet Definition	Work with Deployment Definition	Add Task	Delete Task	Change Task State	Change Task Definition	Change Task Status	Maintain Task Budget	Record Task Resource Use	Reopen Task				
&DEVELOPER, Global	Class	*ALL/*ALL/*ALL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
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BARBRAS, Release	User	BS000Q/PILOT/BASE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
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LM(e) Activities by Release



Timestamp	Activity	Status	Part Name	From	To	By User
2014-01-21 23:08:23	PRM		\$1:/.../LME.ADD	UNT	QUA	DAVEL
				Fixed a number of regression bug issues.		
2014-01-21 23:08:24	PRM		\$1:/.../LME.UTILS.GET.TYPE	UNT	QUA	DAVEL
				Fixed a number of regression bug issues.		
2014-01-21 23:09:20	PRM		\$1:/.../LME.UNCHECKOUT	QUA	INV	DAVEL
2014-01-21 23:09:23	PRM		\$1:/.../LME.ADD	QUA	INV	DAVEL
2014-01-21 23:09:24	PRM		\$1:/.../LME.UTILS.GET.TYPE	QUA	INV	DAVEL
2014-01-21 23:23:02	CKO		\$1:/.../LME.IMPORT.FUNC	INV	+u2aldon10000005	BRUCEH
				Resolving compile.flag issue		
2014-01-21 23:39:09	CAN		\$1:/.../LME.IMPORT.FUNC	+u2aldon10000005		BRUCEH
2014-01-21 23:39:56	CKO		\$1:/.../LME.UTILS.GET.FILE.STATUS	INV	+u2aldon10000005	BRUCEH
				Correcting file type logic		
2014-01-21 23:46:12	CAN		\$1:/.../LME.UTILS.GET.FILE.STATUS	+u2aldon10000005		BRUCEH
2014-01-21 23:46:43	CKO		\$1:/.../LME.IMPORT.FUNC	INV	+u2aldon10000005	BRUCEH
				Correct file type logic		
2014-01-21 23:52:40	CKI		\$1:/.../LME.CHECKOUT	+u2aldon10000005	UNT	BRUCEH
				Fixing compile flag issue in LME.CHECKOUT and LME.IMPORT.FUNC		
2014-01-21 23:52:40	CKI		\$1:/.../LME.IMPORT.FUNC	+u2aldon10000005	UNT	BRUCEH
				Fixing compile flag issue in LME.CHECKOUT and LME.IMPORT.FUNC		
2014-01-22 00:26:29	CKO		\$1:/.../LME.STATUS	INV	+u2aldon10000001	DAVEL
2014-01-22 00:27:06	CKI		\$1:/.../LME.STATUS	+u2aldon10000001	UNT	DAVEL
2014-01-22 00:28:18	PRM		\$1:/.../LME.STATUS	UNT	QUA	DAVEL
2014-01-22 00:28:27	PRM		\$1:/.../LME.STATUS	QUA	INV	DAVEL
2014-01-22 15:44:33	CKO		\$1:/.../LME.CHECKOUT	UNT	+u2aldon10000005	BRUCEH
				Correcting file TYPE determination and tracking.		
2014-01-22 15:44:45	CKO		\$1:/.../LME.IMPORT.FUNC	UNT	+u2aldon10000005	BRUCEH
				Correcting file TYPE determination and tracking.		
2014-01-22 15:44:47	CKO		\$1:/.../LME.UTILS.GET.FILE.STATUS	INV	+u2aldon10000005	BRUCEH
				Correcting file TYPE determination and tracking.		
2014-01-22 15:57:01	CKI		\$1:/.../LME.CHECKOUT	+u2aldon10000005	UNT	BRUCEH
				Added the same COMMON statement that LME.ADD has to better track file TYPE as well as logic to accep		
2014-01-22 15:57:09	CKI		\$1:/.../LME.IMPORT.FUNC	+u2aldon10000005	UNT	BRUCEH

Témoignage

Who's Who's ?

What is Factoring ?

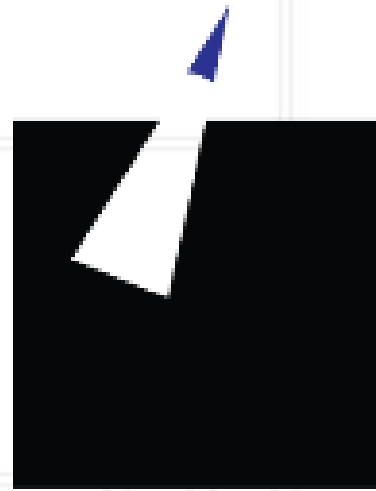


Quels étaient les objectifs de la mise en place ?

Quid des éléments clés du projet ?

Et quels sont les résultats ?

 **Rocket**



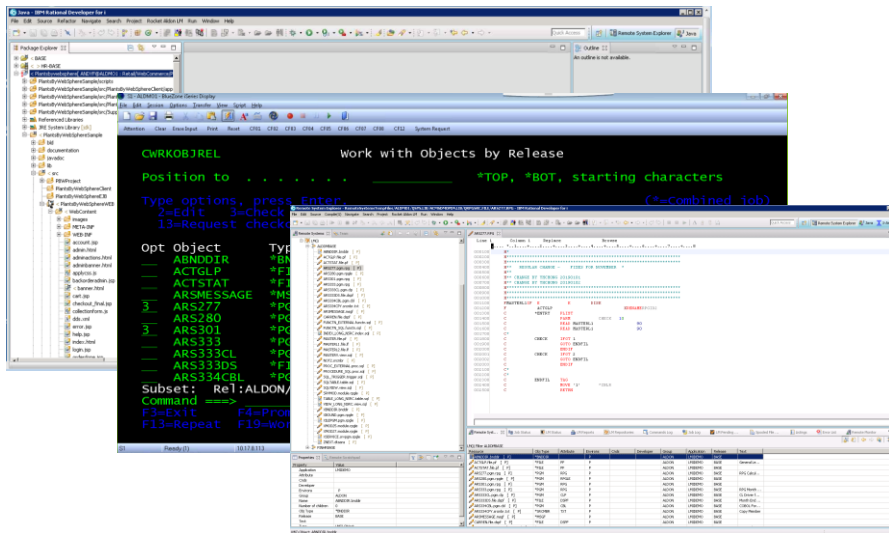
Scénario de Démonstration

Modification d'une application constituée:

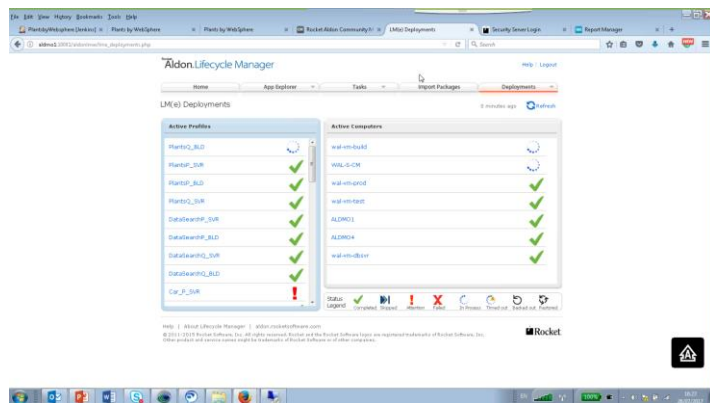
- D'un Frontend Java (WebSphere)
- D'un Backend RPG sur IBMi



Application à modifier

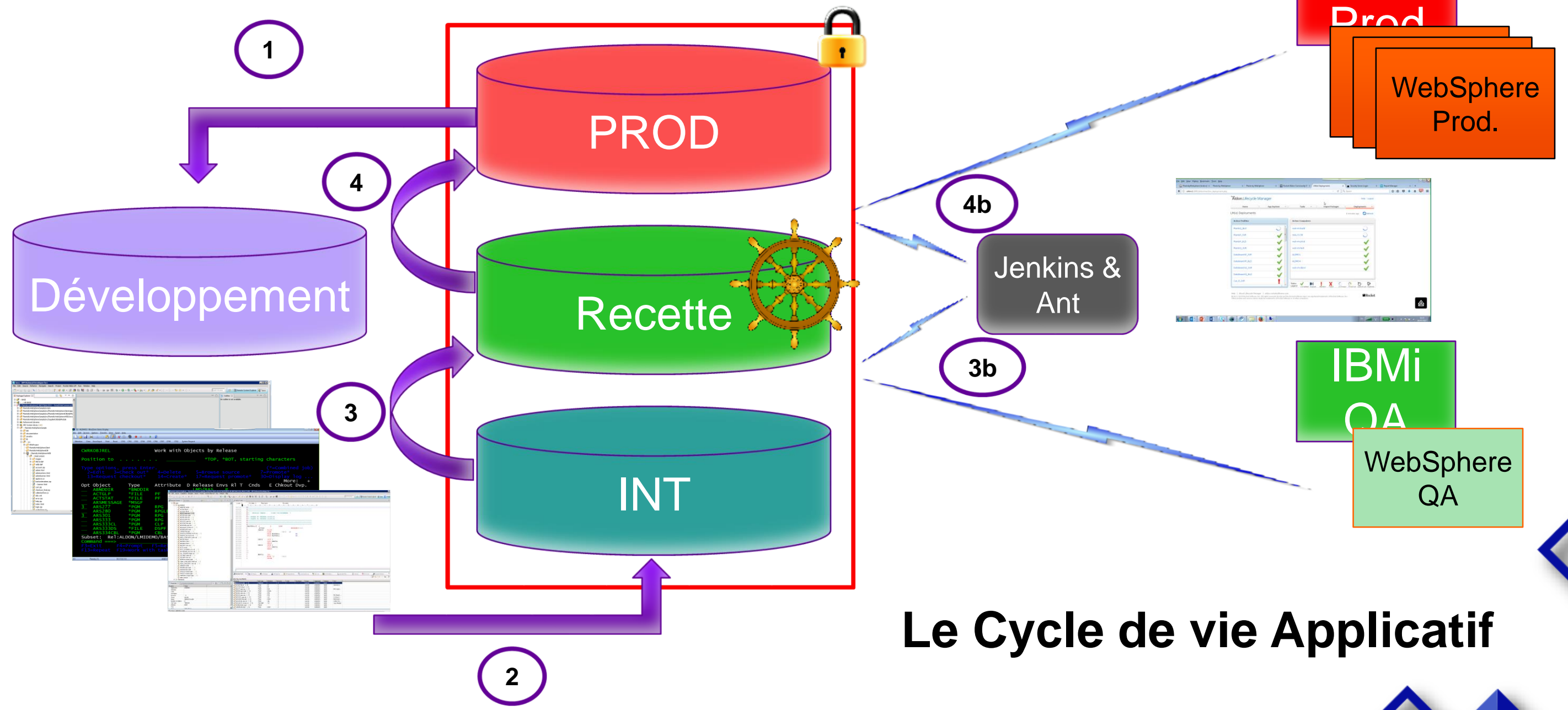


MàJ des applications IBMi et Java
Passage environnement DEV à



Passage environnement INT à C
puis de QA à Prod
Avec Déploiement sur Serveurs

Rocket ALM



Le Cycle de vie Applicatif