

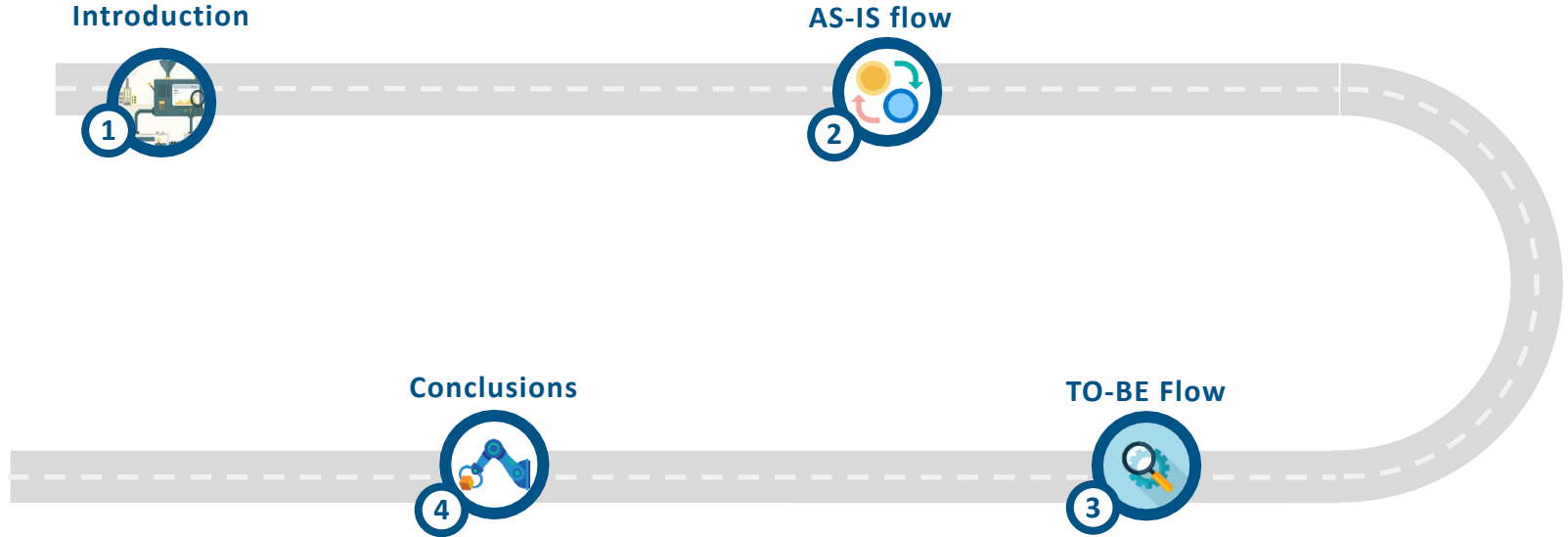


3DEXPERIENCE®

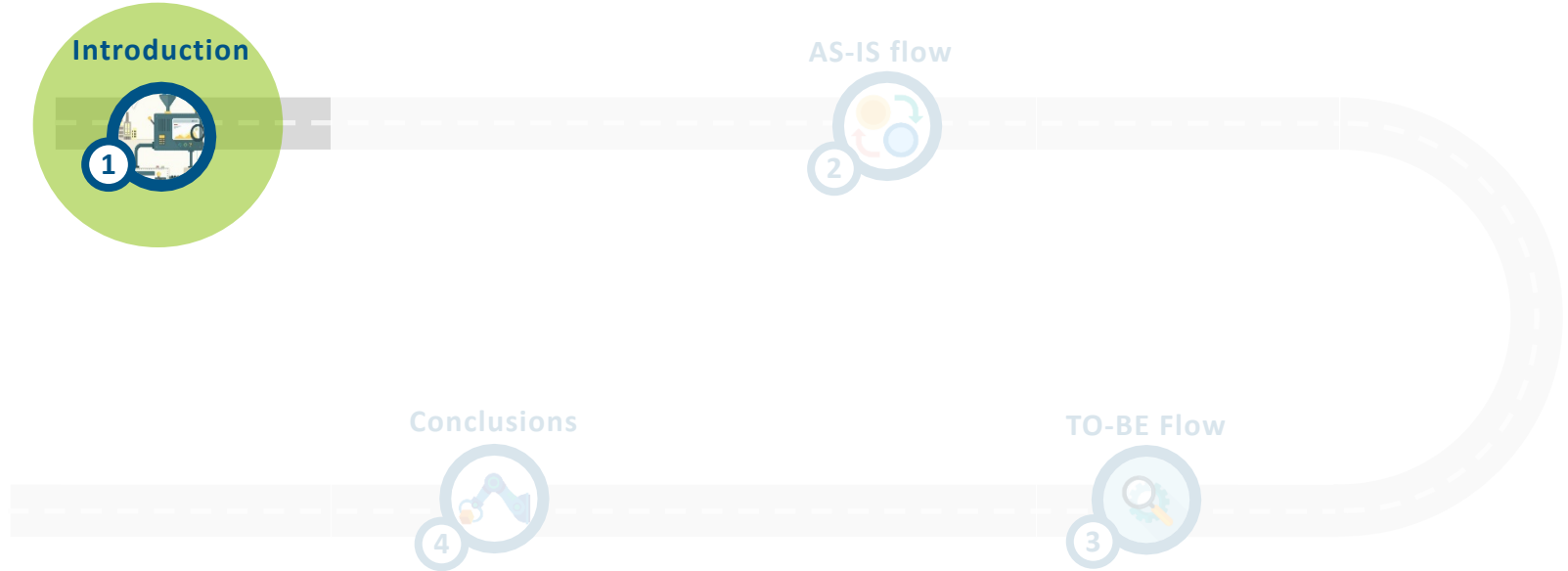
Plant as a Service

The **3DS/Nutanix/DXC** joint proposition to accelerate and optimize the MES rollout program

Plant as a Service



Plant as a Service



What is it?



A brand new way to manage new sites implementation

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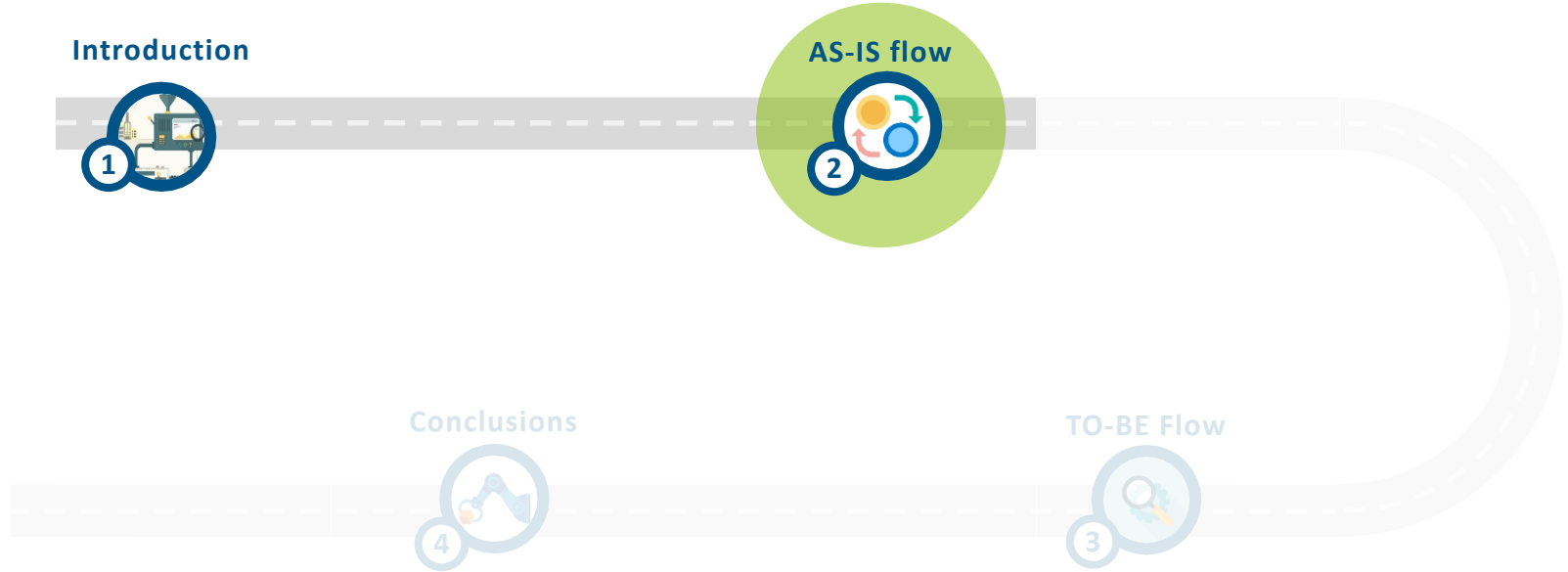


A brand new way to manage new sites implementation

Nutanix, DXC and 3DS have put together their competencies to offer an easy system to deploy new DELMIA Apriso sites:

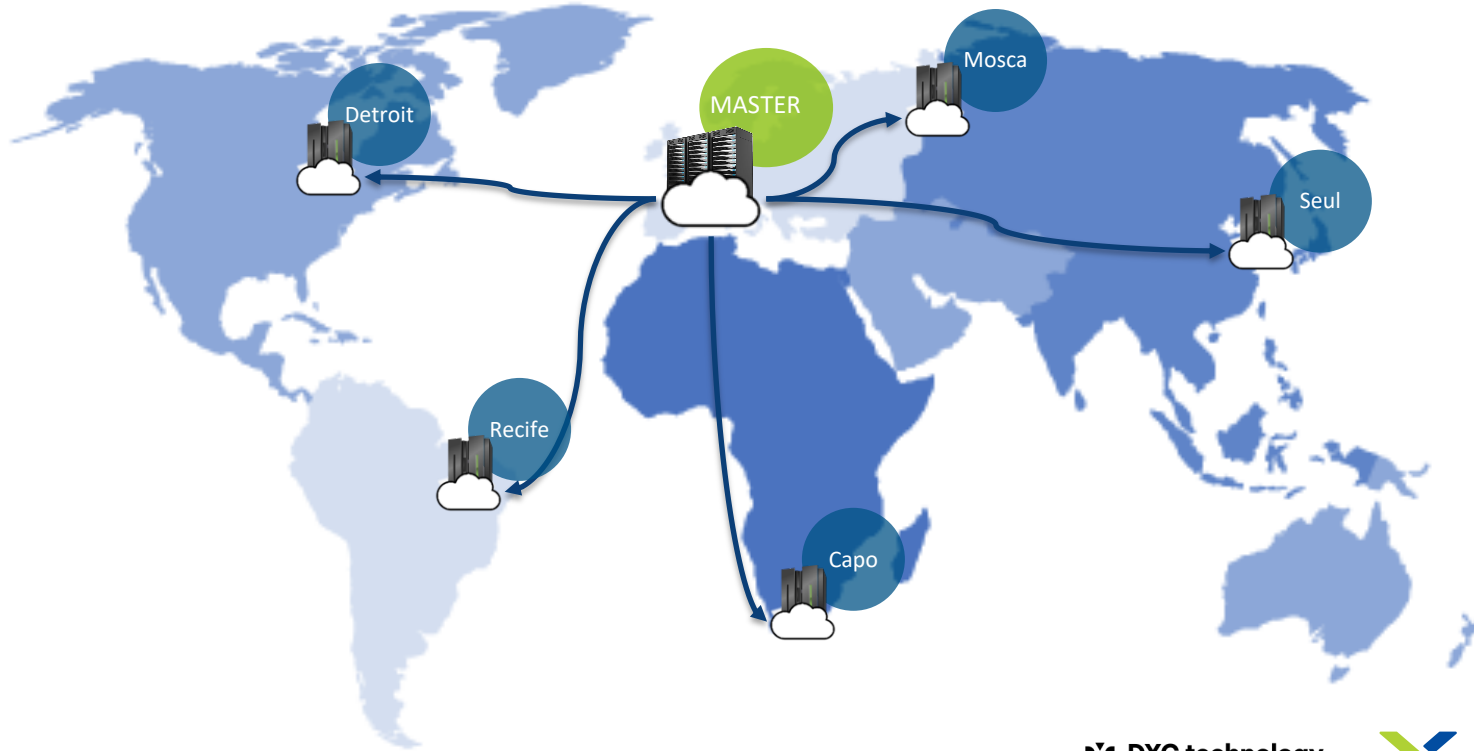
- **FAST:** few click and a new site will be deployed with already DELMIA Apriso installed
- **EASY:** intuitive UI and no need of technical skills
- **LOW COST:** minimize local hardware footprint, no more need to engage a local technical team
- **RISKLESS:** end-to-end infrastructure and application deployment and scalability

Plant as a Service



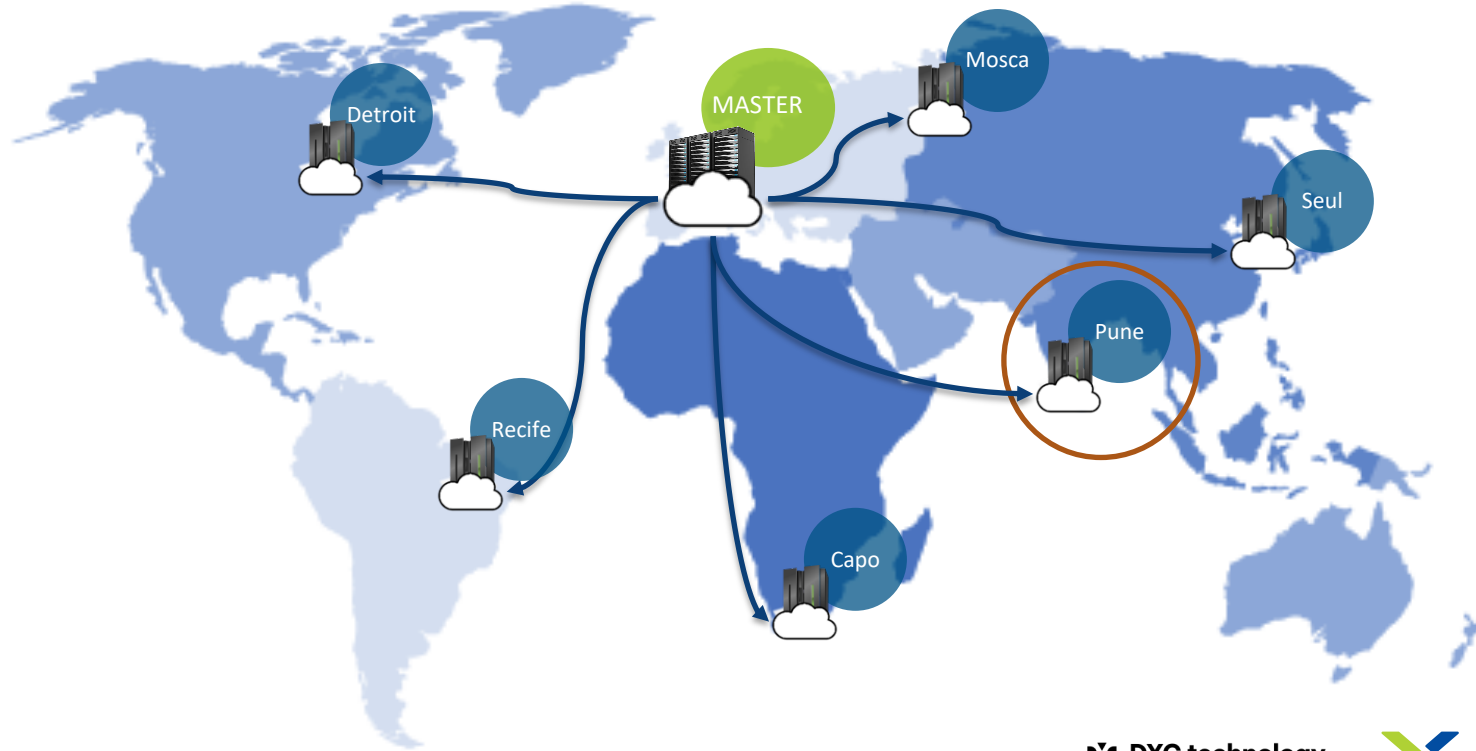
AS-IS Deployment flow

AS-IS flow to deploy a new DELMIA Apriso site



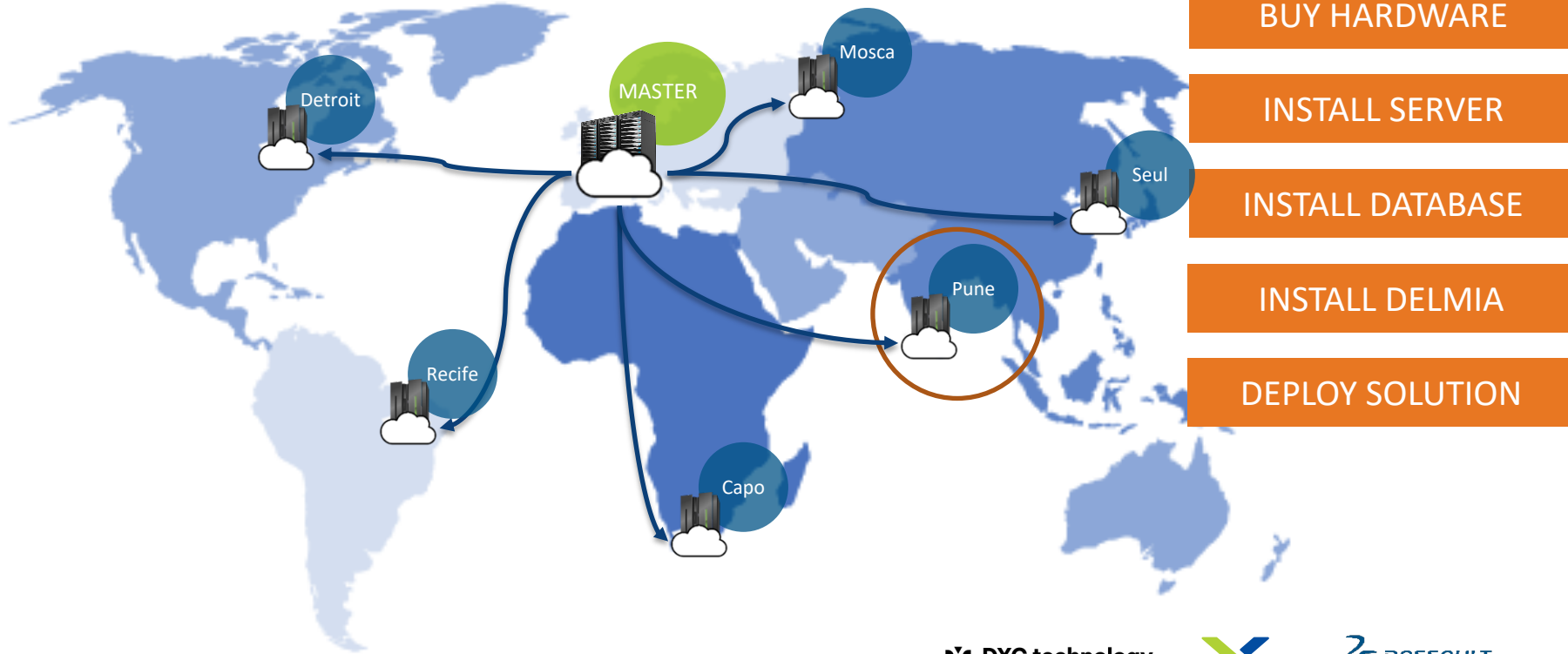
AS-IS Deployment flow

AS-IS flow to deploy a new DELMIA Apriso site



AS-IS Deployment flow

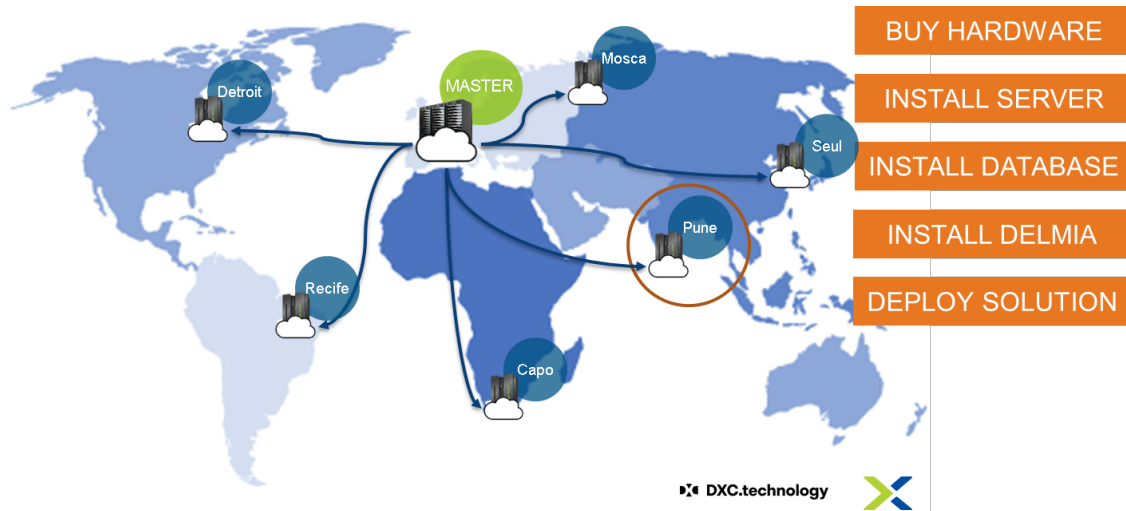
AS-IS flow to deploy a new DELMIA Apriso site



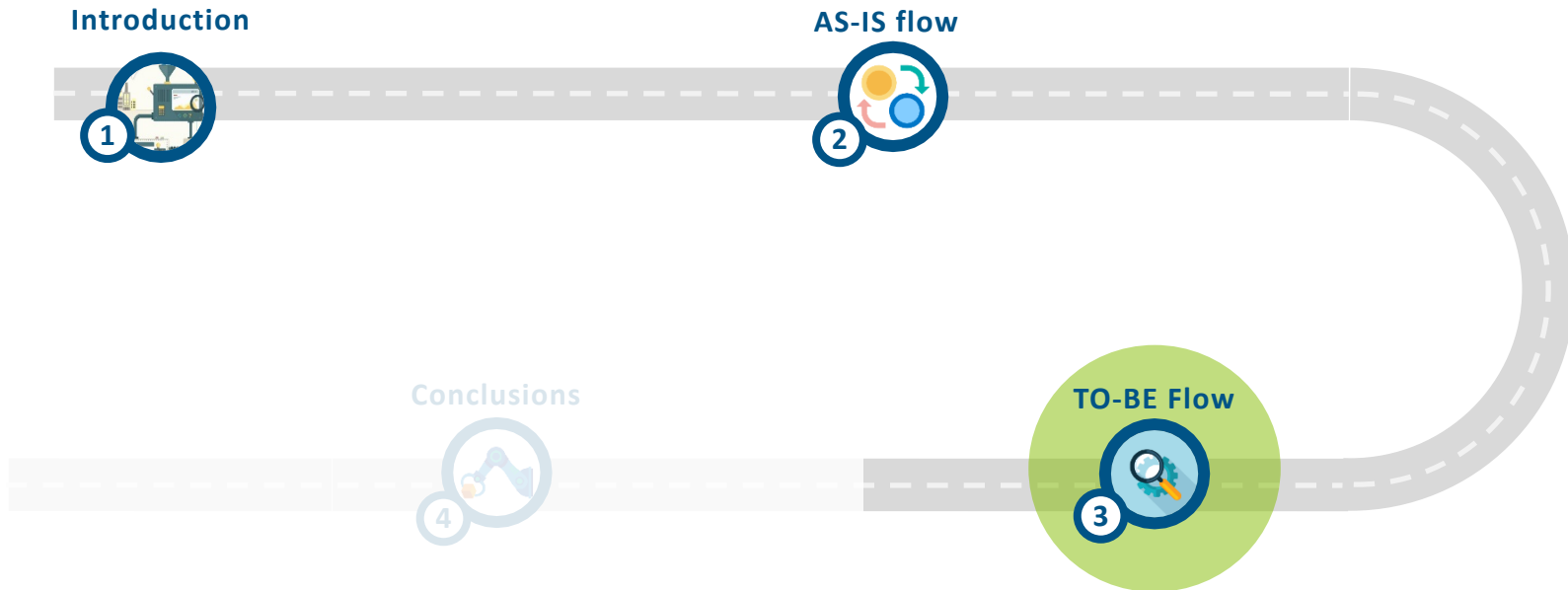
AS-IS Deployment flow

Main Challenges:

- Risk and performance are dependant to local individual initiative
- Lack of centralized control
- Time consuming
- Needs Technical skills
- Limited best practice enforcement
- Troubleshooting issues

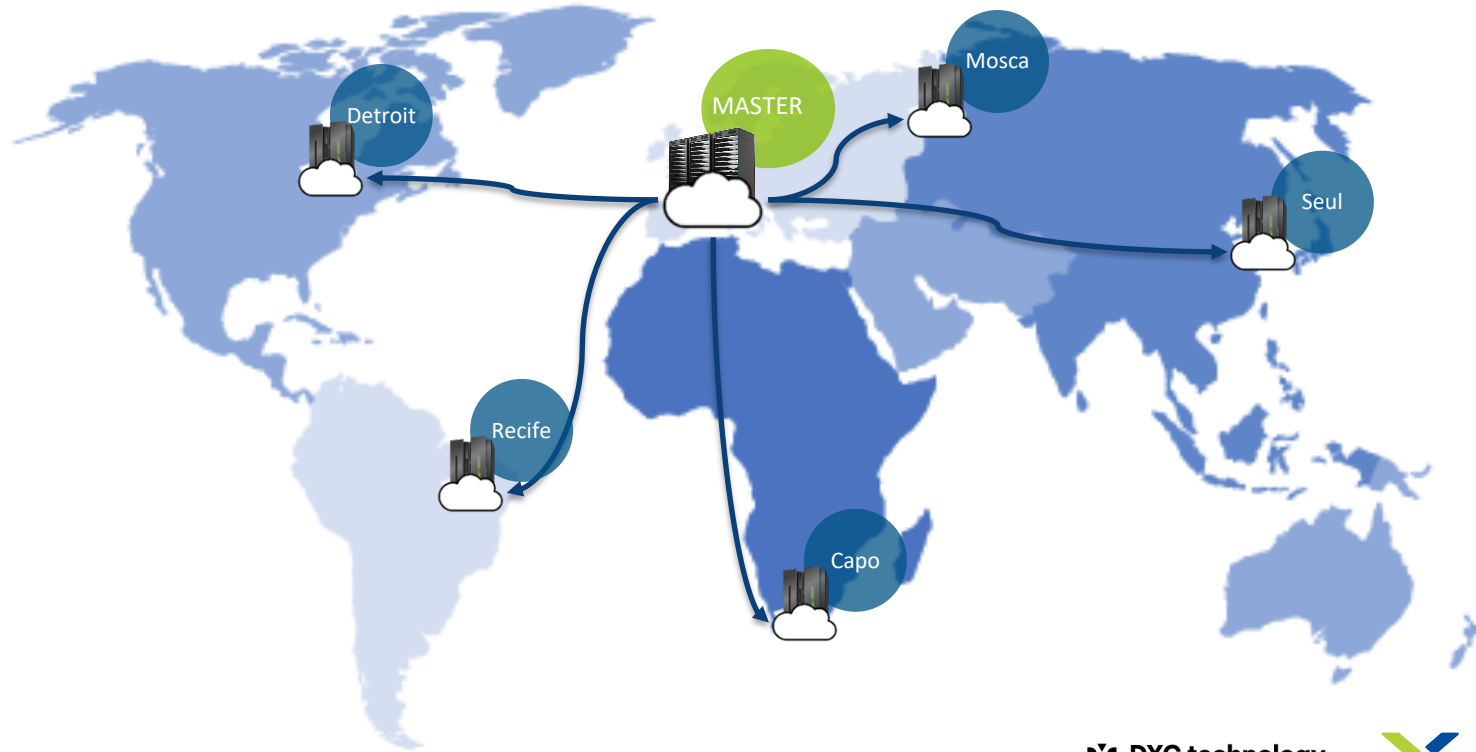


Plant as a Service



TO-BE Deployment flow

TO-BE flow to deploy a new DELMIA Apriso Site



TO-BE Deployment flow

① Create a new site with Nutanix

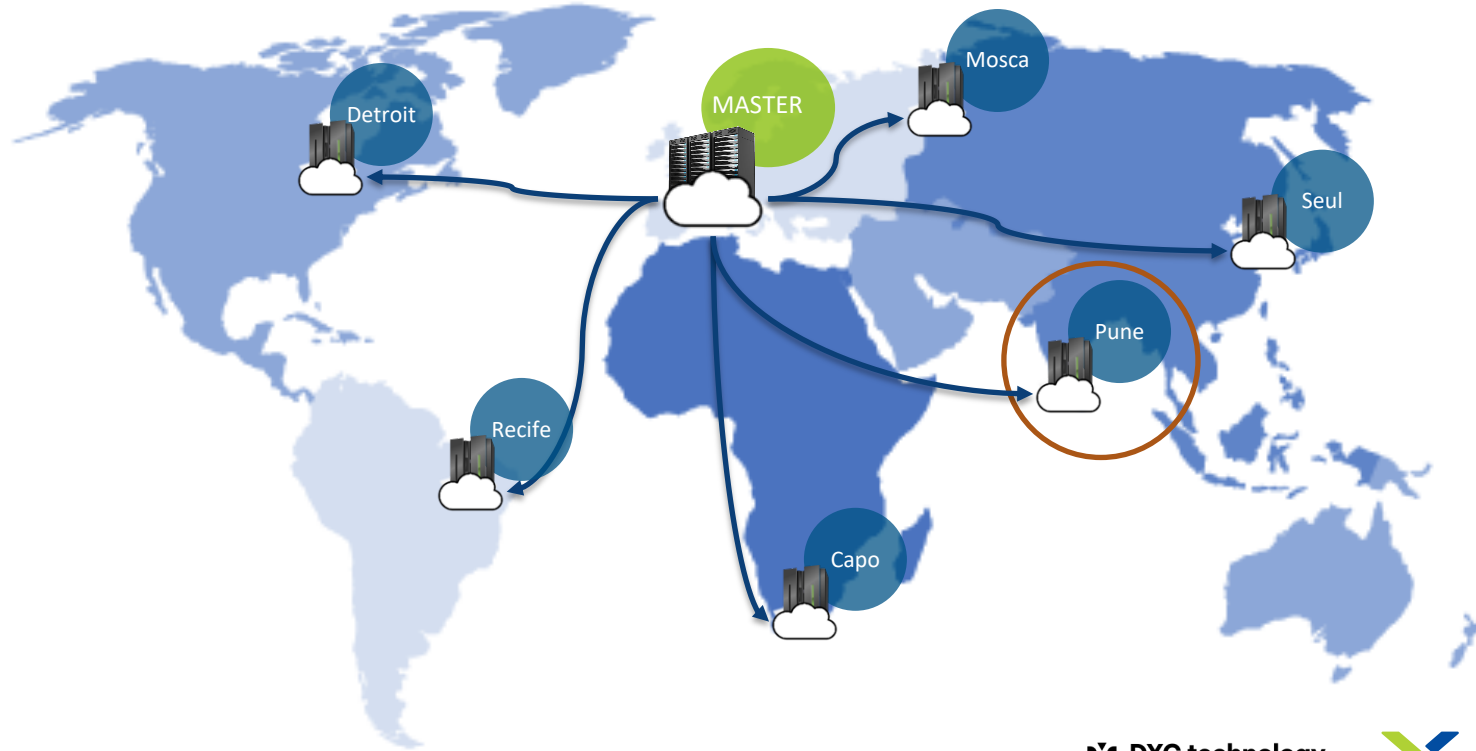
In the video:

- Select geographical area
- Turn on the cloud instance
- Done

```
(default: '')
-t, --timeout: Number of seconds each command to SVMs should take.
      (default: '180')
      (an integer)
-u, --upgrade_node_ip: IPv4 or IPv6 address of node to be upgraded.
      (default: '')
--vcenter_json_file: File containing vcenter details for dial workflow. The json has host, username and password keys.
      (default: '')
--noVcenter_not_required: Set it to true if vcenter is not used to manage ESX cluster.
      (default: 'false')
-v, --verification_file: Metadata file for package integrity, upgrade info.
      (default: '')
--version: Version to which upgrade needs to be performed.
      (default: '')
-w, --[no]wait: Wait for action to complete.
      (default: 'true')
nutanix@NTNX-19SM6K380058-D-CVM:10.136.225.32~$ cluster -s 10.136.225.30,10.136.225.31,10.136.225.32 create
2020-10-28 14:12:50,456Z INFO cluster:2735 Executing action create on SVMs 10.136.225.30,10.136.225.31,10.136.225.32
2020-10-28 14:12:53,478Z INFO cluster:980 Discovered node:
ip: 10.136.225.30
rackable_unit_serial: 19SM6K380058
node_position: B
node_uuid: 5338c718-2e16-4574-8bd7-2e51c0ba3ac8
2020-10-28 14:12:53,478Z INFO cluster:980 Discovered node:
ip: 10.136.225.31
rackable_unit_serial: 19SM6K380058
node_position: C
node_uuid: e1fcb578-ca0a-466f-a6ec-2d43840e4308
2020-10-28 14:12:53,479Z INFO cluster:980 Discovered node:
ip: 10.136.225.32
rackable_unit_serial: 19SM6K380058
node_position: D
node_uuid: 6db0c9ef-18ff-4eb1-8bc9-cd2f22be5733
2020-10-28 14:12:53,479Z INFO cluster:998 Cluster is on arch x86_64
2020-10-28 14:12:53,482Z INFO genesis Rack utils.py:49 Rack not configured on node (svm_ip: 10.136.225.30)
2020-10-28 14:12:53,485Z INFO genesis Rack utils.py:49 Rack not configured on node (svm_ip: 10.136.225.31)
2020-10-28 14:12:53,486Z INFO genesis Rack utils.py:49 Rack not configured on node (svm_ip: 10.136.225.32)
2020-10-28 14:12:56,550Z INFO cluster:1287 iptables configured on SVM 10.136.225.30
2020-10-28 14:12:59,685Z INFO cluster:1287 iptables configured on SVM 10.136.225.31
2020-10-28 14:13:02,691Z INFO cluster:1287 iptables configured on SVM 10.136.225.32
2020-10-28 14:13:02,692Z INFO cluster:1306 Creating certificates
2020-10-28 14:13:05,486Z INFO cluster:1323 Setting the cluster functions on SVM node 10.136.225.30
2020-10-28 14:13:05,488Z INFO cluster:1328 Configuring Zeus mapping ({u'10.136.225.32': 1, u'10.136.225.30': 2, u'10.136.225.31': 3}) on SVM node 10.136.225.30
2020-10-28 14:13:06,457Z INFO cluster:1323 Setting the cluster functions on SVM node 10.136.225.31
2020-10-28 14:13:06,459Z INFO cluster:1328 Configuring Zeus mapping ({u'10.136.225.32': 1, u'10.136.225.30': 2, u'10.136.225.31': 3}) on SVM node 10.136.225.31
2020-10-28 14:13:07,432Z INFO cluster:1323 Setting the cluster functions on SVM node 10.136.225.32
2020-10-28 14:13:07,433Z INFO cluster:1328 Configuring Zeus mapping ({u'10.136.225.32': 1, u'10.136.225.30': 2, u'10.136.225.31': 3}) on SVM node 10.136.225.32
2020-10-28 14:13:08,403Z INFO cluster:1346 Creating cluster with SVMs: 10.136.225.30,10.136.225.31,10.136.225.32
2020-10-28 14:13:08,475Z INFO cluster:1355 Will seed prism with password hash $6$Z0ENXtFF6v/7etTg.LyDfCgruNDG1zF8Lq4MDFaQo3MbCg38S6tDgRTKFFUT0zIg.TosJcAzgdTd.pMx1d9S2J5qb3mX1
```

TO-BE Deployment flow

TO-BE flow to deploy a new DELMIA Apriso Site





TO-BE Deployment flow

② Deploy DELMIA Apriso solution

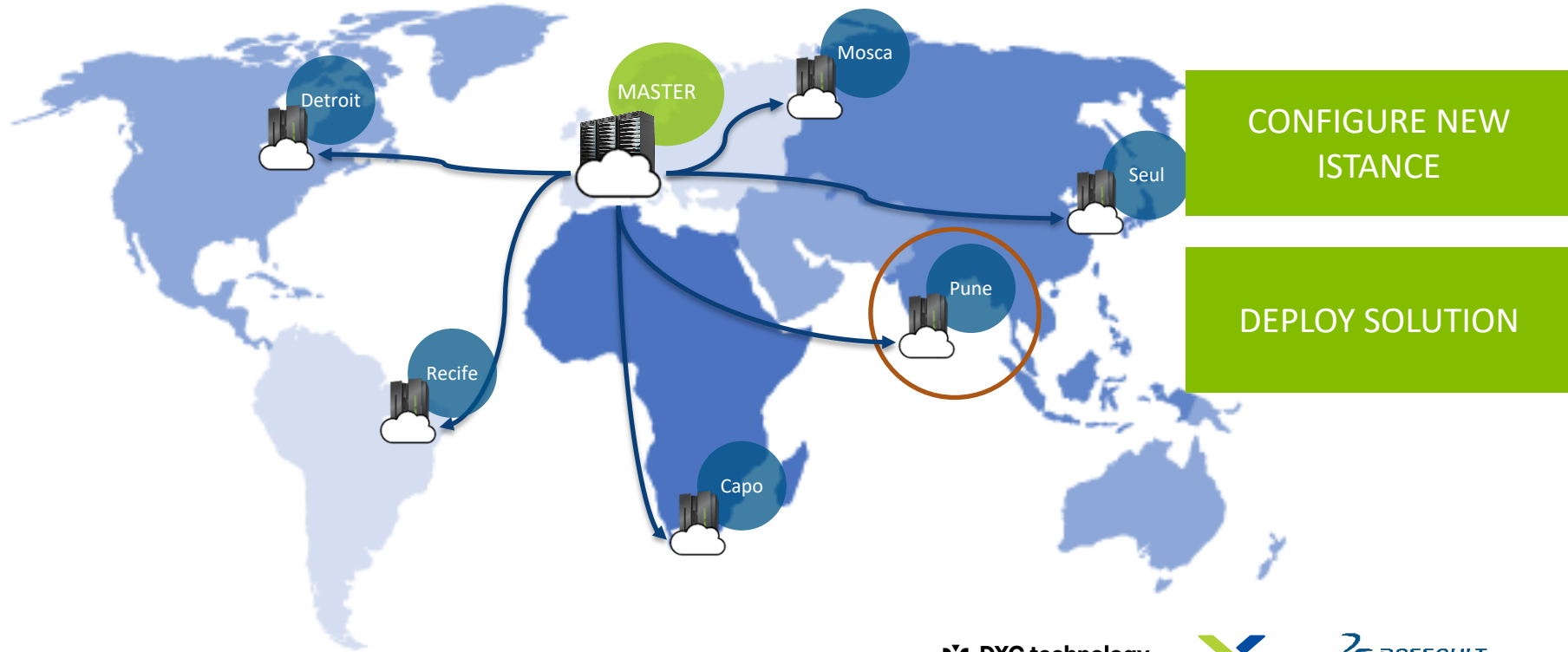
In the video:

- Select the solution you want to deploy
- Select the new site previously installed
- Done



TO-BE Deployment flow

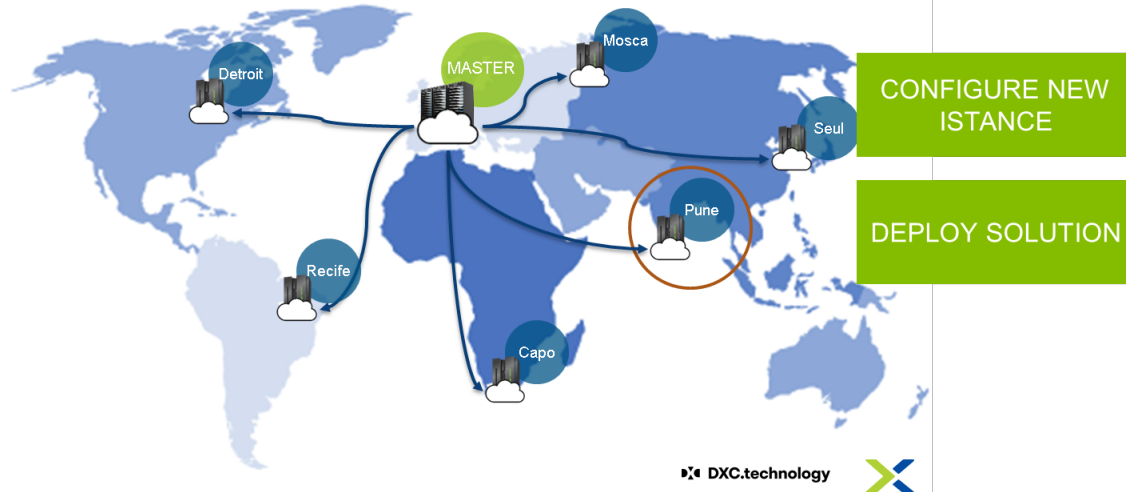
TO-BE flow to deploy a new DELMIA Apriso Site



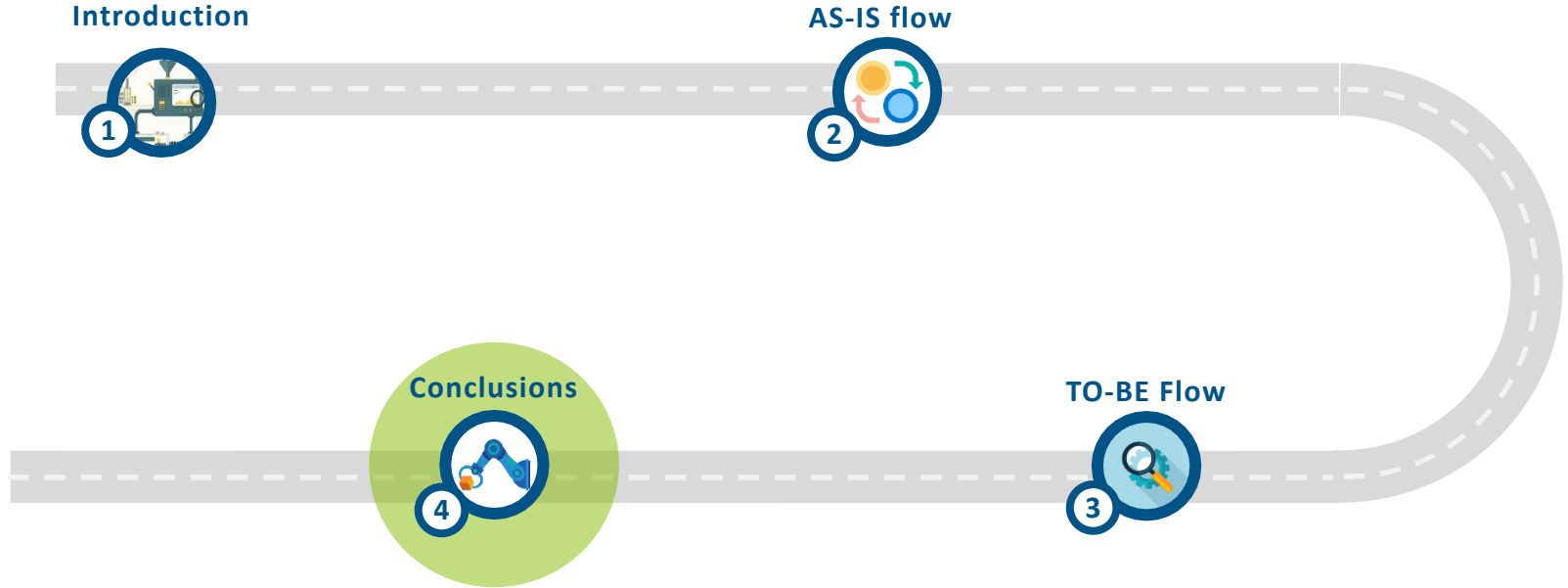
TO-BE Deployment flow

Main Strenght:

- Easy to configure
- Ensure high availability and adoption
- Consistent “Best Practices” Across the Enterprise
- Flexible (both on premise and on cloud)
- Faster Deployments Across the Enterprise, Accelerating ROI
- Lower Total Cost of Ownership



Plant as a Service



Plant as a Service Recap

What is special about the solution?

► Configure a new site is **FAST...**

- ▷ A predefined cloud environment including DELMIA Apriso installation
- ▷ DELMIA Apriso Solution that allows to deploy the development with few clicks



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- ▷ No need of a local tech team
- ▷ Maintenance costs are reduced



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- ▷ DELMIA Apriso Solution that allows to deploy the development with few clicks

► **EASY**...

- ▷ UI intuitive and easy to use and to manage (AI based anomaly detection)
- ▷ Few steps to set a new site live

► **LOW COST**

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- ▷ Maintenance costs are reduced

► And **RISKLESS**

- ▷ Infrastructure setup and application deployment are synchronized
- ▷ Capacity Planning to predict infrastructure future needs



Plant as a Service Recap

Additional Services...



- ▶ Platform can support also:
 - ▷ IIoT
 - ▷ Big data analysis (predictive maintenance)
 - ▷ Advanced file services and object storage
 - ▷ Containerized applications
 - ▷ Secure Operations (IT & OT)

