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PACS Replacement

Evaluation, Planning, Implementation

Current PACS no longer corresponds to the needs of the institution

Reasons

- Slow delivery times of medical images

- Longer downtimes

- Changes within the facility due to consolidation or new clinical areas

- Looking for new functionalities supporting clinical workflows

- "signs of aging" e.g. missing upgradeability

Goals

- Up-to-date technology

- Increase performance and stability

- TCO improvements

- Implementing efficient clinical workflows

- Flexible & expandable PACS solution

"The average lifespan of a PACS is between seven years and 10 years, but changes and regulatory requirements start to knick away at efficiency almost immediately.[1]"

[1] Diagnostic Imaging, What You Need to Know About Replacing Your PACS, Whitney L.J. Howell, 2014

How to orchestrate the PACS replacement in general

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Evaluation phase	Planning phase	Implementation phase

First considerations

Step-by-step planning

Recommendations for change management

Evaluation phase
First considerations

Identification of current and future needs

- Obtain information on the "old" system and infrastructure

- Address improvement potentials (e.g. performance, stability, …)

- Consider necessary system sizing (e.g. throughput, case complexity, …)

- Evaluate vendor-neutral and/or modular approach (e.g. archiving opportunities, …)

Test and try

- Set up a demo system and test common workflows

- Try additional / new functionalities

Comparison of offered solutions with requirements set

Evaluation phase

Identify and evaluate

Test and try

Compare

Imaging Software and IT
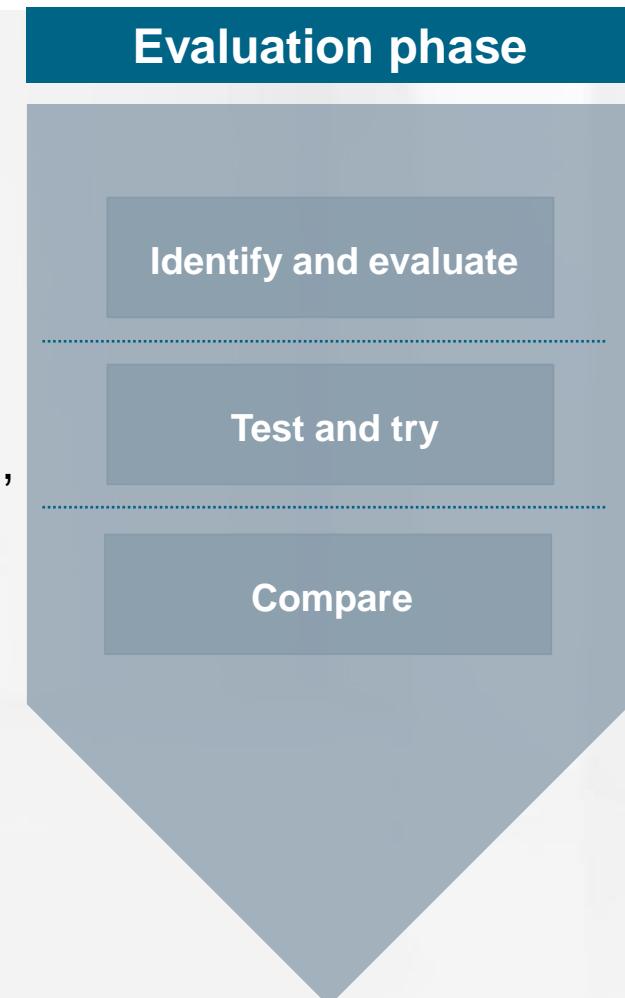
Planning phase
Make arrangements

Prepare detailed resource and project plan

- Establish responsibilities and nominate project owners

- Inform all parties involved about the replacement

Establish a replacement infrastructure to enable a smooth transition

- Ensure parallel operation and the least possible clinical workflow interruption

- Data Cleanup might be necessary due to the tight linkage of RIS and PACS

Training

- Users and administrators should be trained prior to migration.

Planning phase

Prepare

Establish

Train
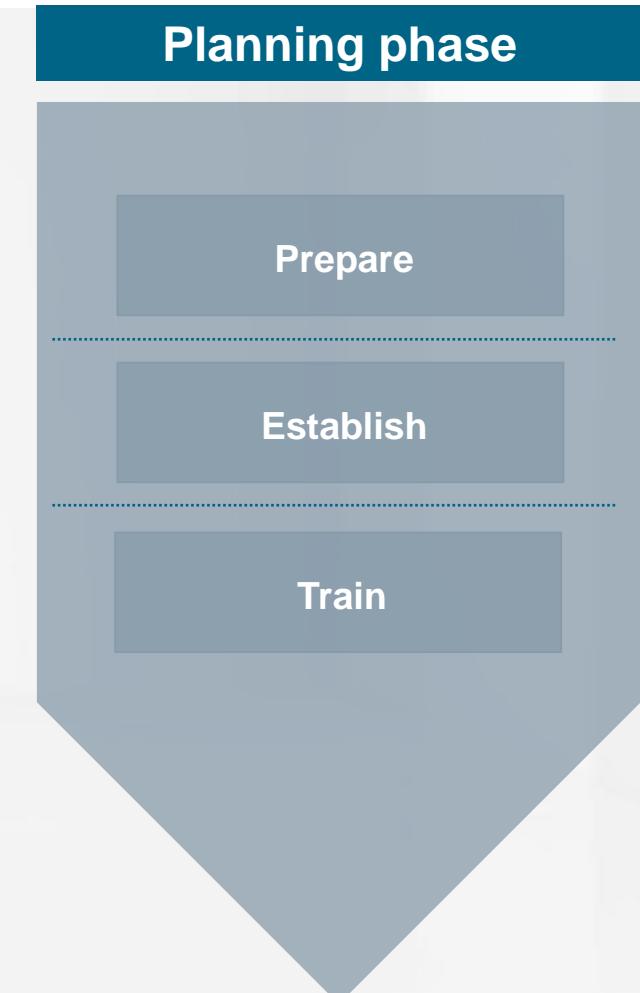
Implementation phase
Recommendations for change management

Implement the new PACS infrastructure

- Installation and integration

- Adaption or update of interfaces to external systems

Data migration

- Copying imaging data on DICOM level with optional changing/updating DICOM tags

- Migration monitoring with concluding report

Customizing

- Adapting the settings to specific user needs (e.g. layouts, loading rules, …)

Check final completion of implementation process and customizing

Implementation phase

Implement

Migrate

Customize

Check
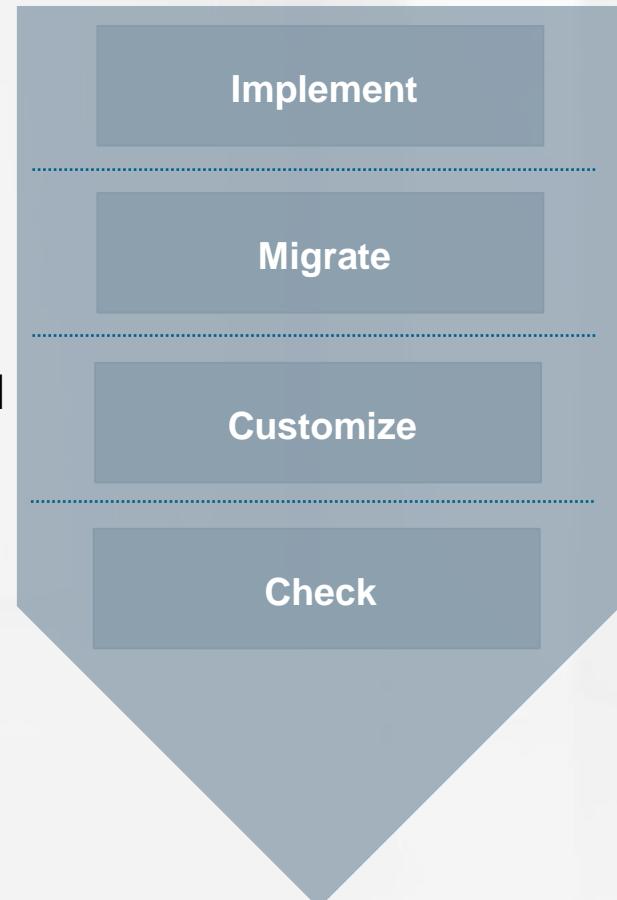
Migrate your previous PACS to *syngo*.plaza

Migration to *syngo*.plaza
With well approved methods
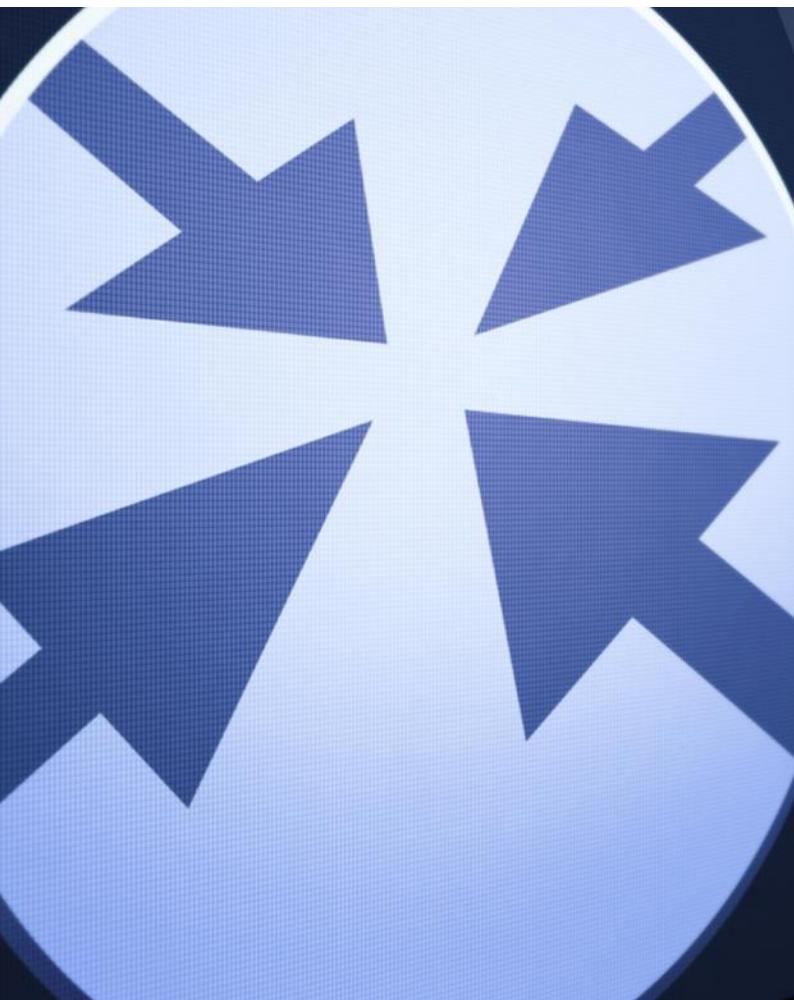
**Tools and services to replace
your previous system with *syngo*.plaza**

Smart Data Conversion

- Dynamic load balancing
- Automatic permanent monitoring
- Proprietary data access

DICOM migration

- Copying imaging data on DICOM level with optional changing/updating DICOM tags

Media migration

- Copying LTS data on file level without any changes, e.g. DVD jukebox to HSM or DiskXtender to TSM

DICOM migration for your 3rd party PACS

Data transfer via DICOM

3rd party PACS	Smart Data Conversion (SDC) controller	syngo.plaza

3rd Party PACS
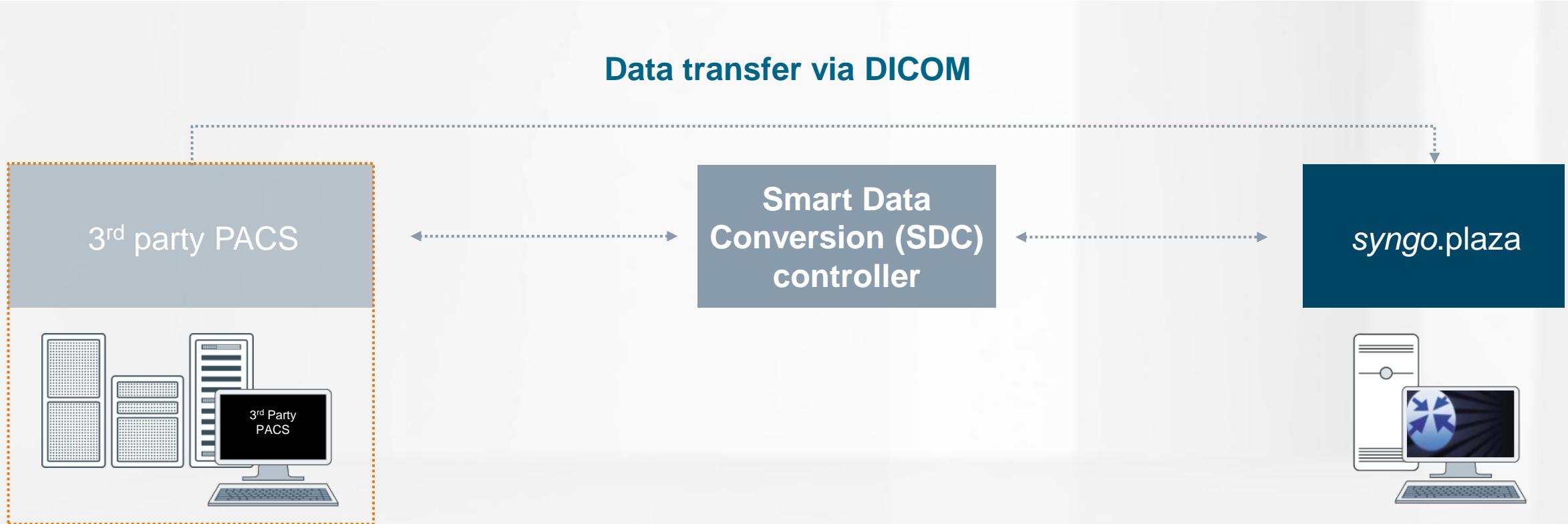
All legacy data is taken over and converted to *syngo*.plaza using the SDC controller

Migration to *syngo*.plaza
Benefits for radiologists & IT administrators

Radiologist

- Work with *syngo*.plaza even while conversion is running
- Access to previous images anytime[1] through Query Spanning
- Fast loading of converted previous images

IT Administrator

- Reduced system complexity
- Image data cleanup
- Less LTS capacity required after conversion

[1]Prerequisites include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data security regulations.

Further information about PACS replacement with *syngo*.plaza

Combining the best of both worlds

After a PACS Update, doctors at Klinikum Chemnitz in Germany feel well equipped to meet their future challenges

http://www.healthcare.siemens.com/magazine/mso-pacs-migration.html

PACS migration made easy

Christophsbad Medical Center in Germany on the advantages of updating their Picture Archiving and Communication System

http://www.healthcare.siemens.com/magazine/mso-pacs-system-in-radiology.html

Transition to *syngo*.plaza

University Hospital Krems in Austria about the quick and easy transition to *syngo*.plaza and the new possibilities with it.

http://www.healthcare.siemens.com/siemens_hwem-hwem_ssxa_websites-context-root/wcm/idc/resources/hwem_assets/Video/2015-siemens-syngo-plaza-master-krems-extern-cut02-02556467~1~sd_16x9_mp4.mp4

syngo.plaza[1] – Beyond PACS
Your access to 3D, mobile viewing and VNA[2]

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Archiving

Viewing

Reading & Reporting
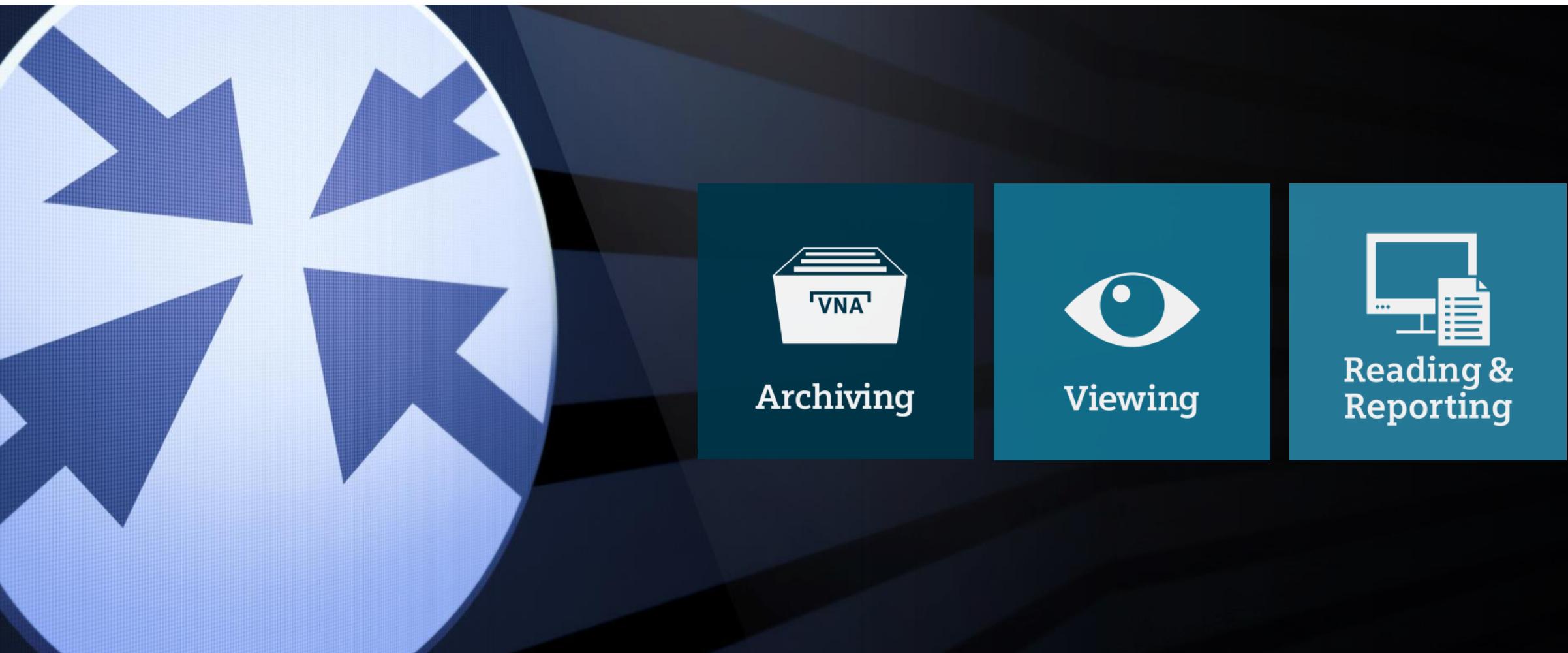
1 syngo.plaza is not commercially available in all countries. Due to regulatory reasons it's future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

2 These options are realized by seamless interfaces to other Siemens or 3rd party products