



Global eArchive @ Bayer

***GeAR:
Completing the Data Life
Cycle Through an Allotrope
Archive***



Allotrope Foundation

04.2018 / Dr. Dennis Della Corte

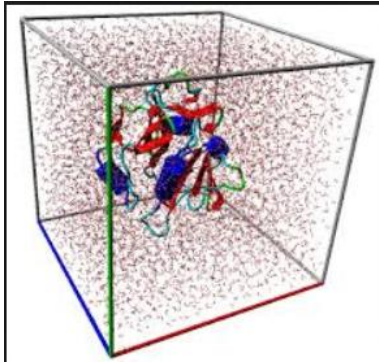
GeAR GLOBAL
eARCHIVE





Dr. Dennis Della Corte

My life before Bayer



Current role within Bayer



Senior IT Project Manager - Bayer Business
Services ITO R&D IT

Responsible for GEAR roll out & part of
Allotrope @ Bayer team

GEAR GLOBAL
eARCHIVE



Private facts:

- workplace: Wuppertal Germany
- Happy husband and father of 3 children
- Contact: dennis.dellacorte@bayer.com



// Presentation Objectives

- // Provide proof for Bayer's Allotrope commitment
- // Provide key insights to help your strategic decision making
- // Sent a clear signal: Allotrope is the future



The GeAR Vision – support Data as an Asset - make core company data:

FAIR

Finable – Accessible – Interoperable - Reusable

GeAR will be the standard for data archiving at Bayer.

All content will be stored compliant to GxP and business requirements.

GeAR will guarantee best practices to make our data more FAIR.



The GeAR Vision – support Data as an Asset - make core company data:

FAIR

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Shareable - Reusable

What does it take to fill buzz words with life?

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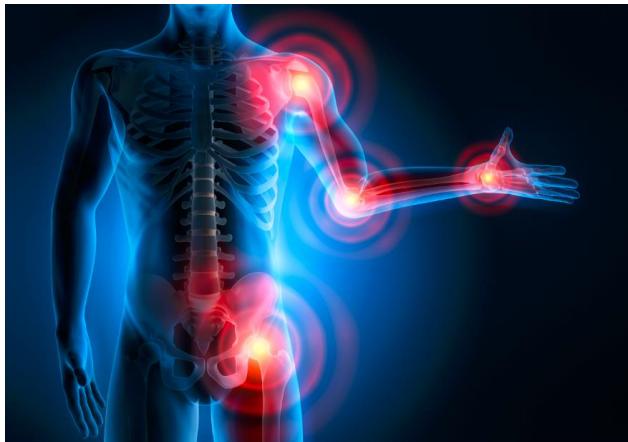
GeAR will guarantee best practices to make our data more FAIR.

How to align stakeholders / understanding the value proposition

eArchiving can be leveraged to solve major pain points

Main pain points:

- increasing regulatory demands with regard to eData
- DaaA, FAIR and other technological pressures
- application landscape costs
- bad conscience about past decisions



<https://www.itris-enterprise.ch/it-transformation-4-painpoints/>

How to align stakeholders / understanding the value proposition

eArchiving can be leveraged to solve major pain points

Main pain points:

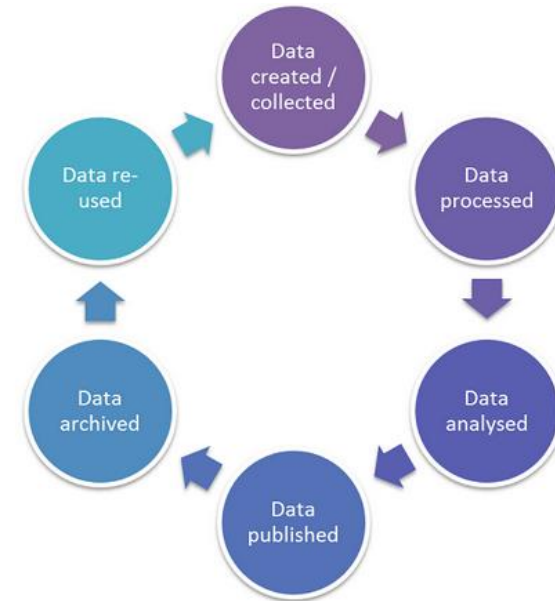
- increasing regulatory demands with regard to eData
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The natural treatment:

- Face the truth about the data life cycle:
→ Good archiving is key to reuse your data



<http://www.lancaster.ac.uk/library/rdm/what-is-rdm/plan/data-lifecycle/>



What is an eArchive



What is an eArchive

Data Grave?





What is an eArchive

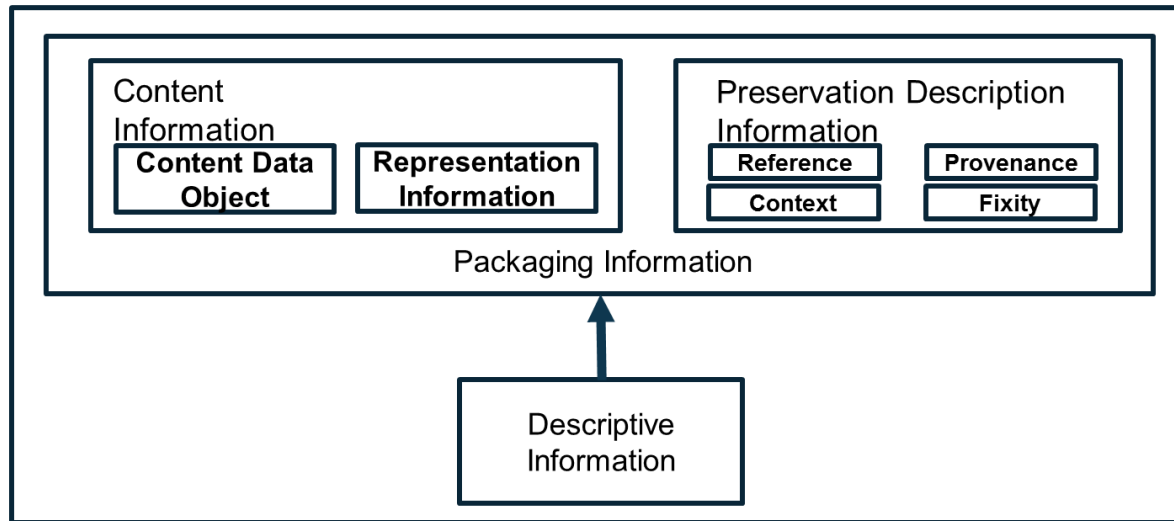
Data Grave? Not at Bayer!



OAIS ISO 14721:2012

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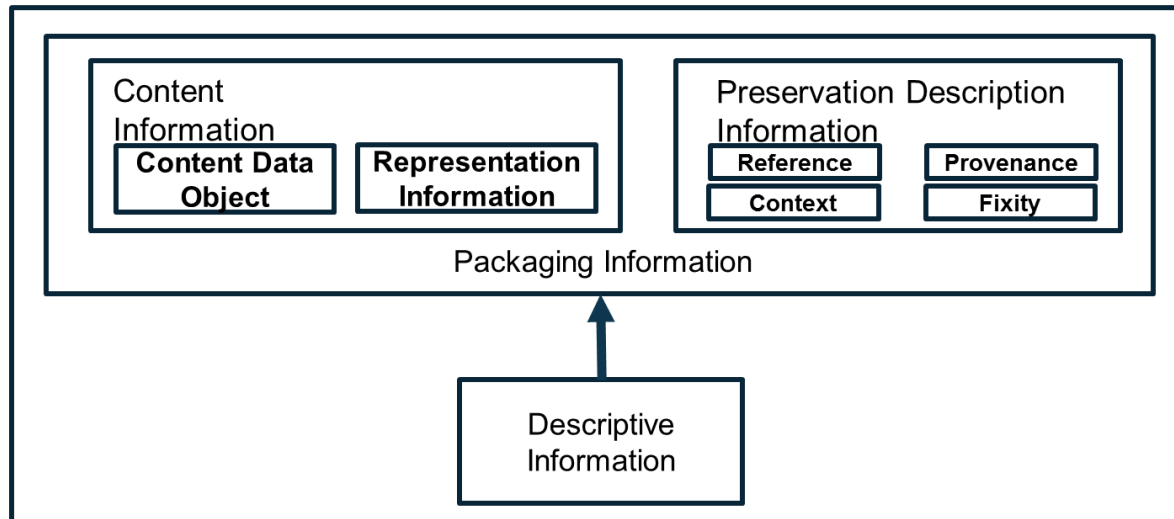
OAIS is a framework – the core components are: Information Packages



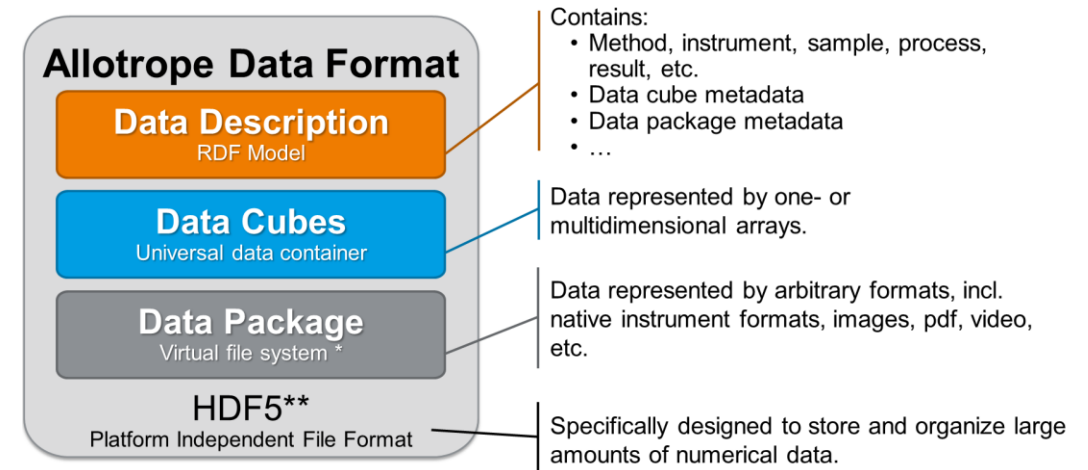
- Information packages are used to link content and additional information to a logical package
- They are used to prepare data for ingest (SIP), for the archiving step (AIP) and for dissemination (DIP)

OAIS is a framework – the core components are: Information Packages

One very suitable implementation of an OAIS IP:



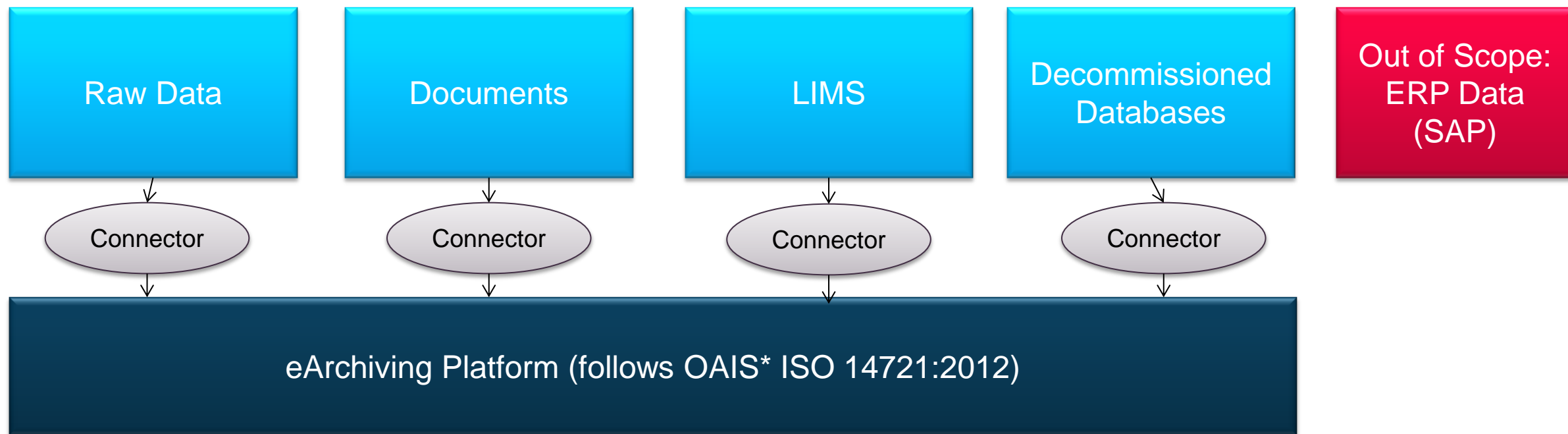
The Allotrope Data Format



- Information packages are used to link content and additional information to a logical package
- They are used to prepare data for ingest (SIP), for the archiving step (AIP) and for dissemination (DIP)



Scope **Global eArchive** @ Bayer: One Platform to Support most Data Types

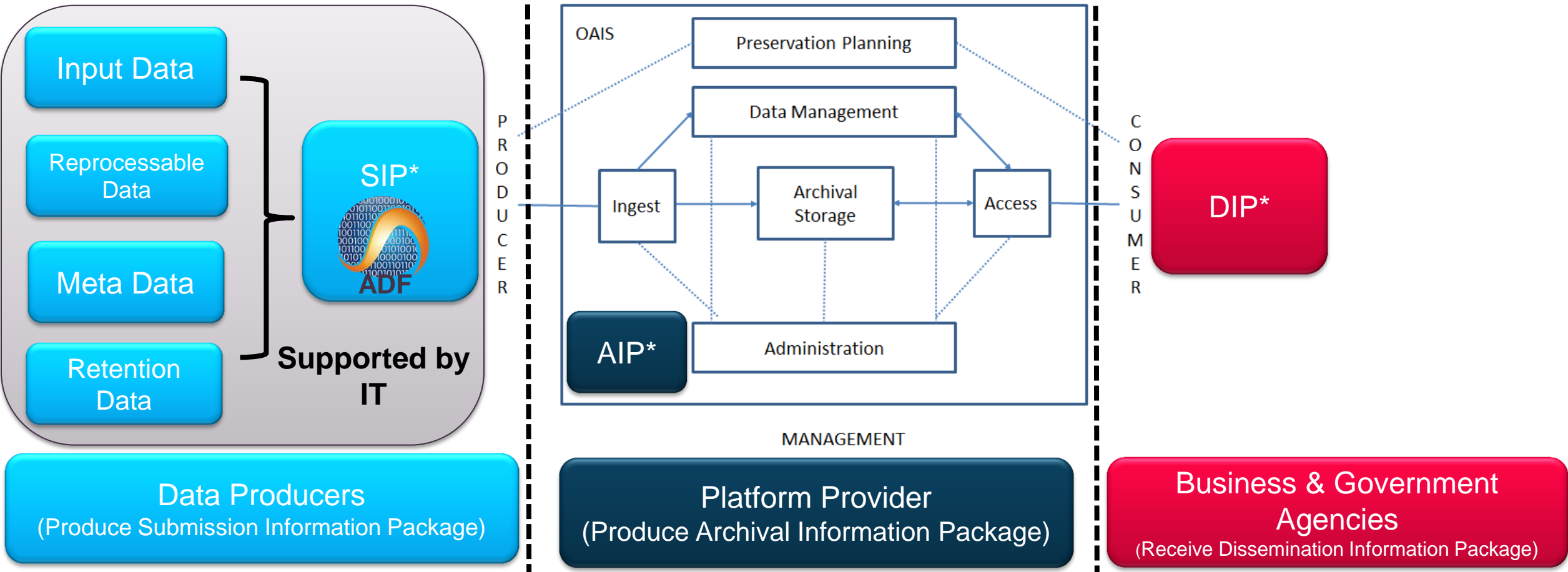


- The scope of GeAR is the role out of a single eArchiving platform and multiple connectors to archive diverse classes of input data :
 - Raw Data, Documents, LIMS and Decommissioned Databases are in scope for 2018
 - SAP data is currently out of scope

What makes GeAR successful?

OAIS* Framework allows GeAR to scale through all use cases

OAIS* ISO 14721:2012 - Industry Standard for eArchiving

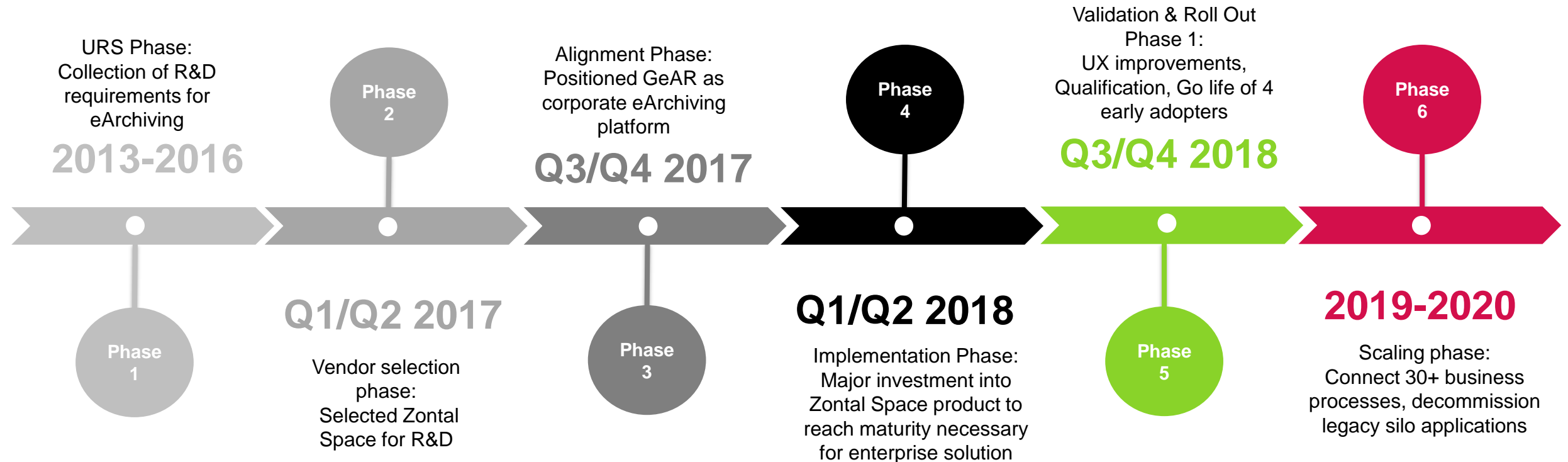


*AIP: Archival Information Package ; APM: Application Platform Management (function title in BBS-ITO);
 DIP: Dissemination Information Package ; OAIS: Open Archival information System;
 SIP: Submission Information Package



GeAR – A look into past / present / future

GeAR matured from a R&D eArchiving activity to a corporate program. The eArchiving vision was expanded to support Data as an Asset strategy. GeAR makes core company data findable and accessible.





Screen Shot Bayer GeAR Search interface

The screenshot displays the Bayer GeAR Search interface. The top navigation bar includes a search bar, a dropdown menu for 'Information Collection', and a search button. The main content area shows a list of search results, with the first three results highlighted in green. The selected result, 'KINM 160232_05 - Test1', is shown in detail on the right side of the interface.

Information Collection test

Order By

35 results (1 selected)

Generic Test 3
Submitted on 2018/04/20 by ZONTAL Space Bot
Imported from E:/Moon-inbox/Share-T/BAY 1211163_sGC Act Inh in ARDS - Copy - Copy/KINM 160232_Biotransformation in rats/Abbildungen/Generic Test 3.pdf on 2018/04/20

Generic Test 3
Submitted on 2018/04/20 by ZONTAL Space Bot
Imported from E:/Moon-inbox/Share-T/BAY 1211163_sGC Act Inh in ARDS - Copy - Copy/KINM 160232_Biotransformation in rats/Abbildungen/Generic Test 3.docx on 2018/04/20

KINM 160232_05 - Test1
Submitted on 2018/04/17 by ZONTAL Space Bot
Imported from E:/ADI-Inbox/Experiment Excel-Files/BAY 1211163_sGC Act Inh in ARDS/KINM 160232_Biotransformation in rats/Experiments/KINM 160232_05 - Test1.xlsx on 2018/04/17

Generic Test 1b
Transmitted on ? by ?
Imported from E:/ADI-Inbox/share_T/BAY 1211163_sGC Act Inh in ARDS/KINM 160232_Biotransformation in rats/Generic Test 1b.pdf on 2018/04/17

I4603-3
Rejected on 2018/04/19 by ZONTAL Space Bot
Imported from E:/Moon-Inbox/PK Generic/Phalims_Testcase/I4603-3 on 2018/04/19

LCMS Abgabe TestMoon
Submitted on 2018/04/17 by ZONTAL Space Bot
Imported from E:/ADI-Inbox/Moon-inbox/Share-T/BAY 1211163_sGC Act Inh in ARDS/KINM 160232_Biotransformation in rats/Abbildungen/LCMS Abgabe TestMoon.pptx on 2018/04/17

KINM 160232_05 - Test1

General Properties

Preferred Label	KINM 160232_05 - Test1
Title	KINM 160232_05 - Test1.xlsx

Reference Properties

ADF Identifier	0a3afd8d-f56d-4ade-b191-dc47bb87e80b
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Provenance

Imported from URL	E:/ADI-Inbox/Experiment Excel-Files/BAY 1211163_sGC Act Inh in ARDS/KINM 160232_Biotransformation in rats/Experiments/KINM 160232_05 - Test1.xlsx
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Created On (Information Source) 2018/04/17 14:01:15

Modified On (Information Source) 2018/04/17 14:01:15

Lifecycle

Created By	Not Found
Created On	2018/04/17 14:01:00
Last Modified By	ZONTAL Space Administrator
Last Modified On	2018/04/17 14:01:25
Lifecycle Status	Submitted
Motivated By	coordinateDeviceInterfaceUpdates
Submitted By	ZONTAL Space Bot



// Key take away:

- // Bayer builds a platform to eArchive all data in a standardized and harmonized way
- // All data will reside in Allotrope container and will leverage RDF representation of metadata
- // It will become increasingly more important to receive ADFs from source systems



Thank you!



Bye-Bye

