Digital Transformation of the Lab

Standard input

Ontologies

Data Models
[>0]
[1..2]

Allotrope Data Format
- **Data Description** Semantic Model
- **Data Cubes** Universal Data Container
- **Data Package** Virtual file system

API

Allotrope Ecosystem Creating Digital Capabilities: see today's agenda

Standard output

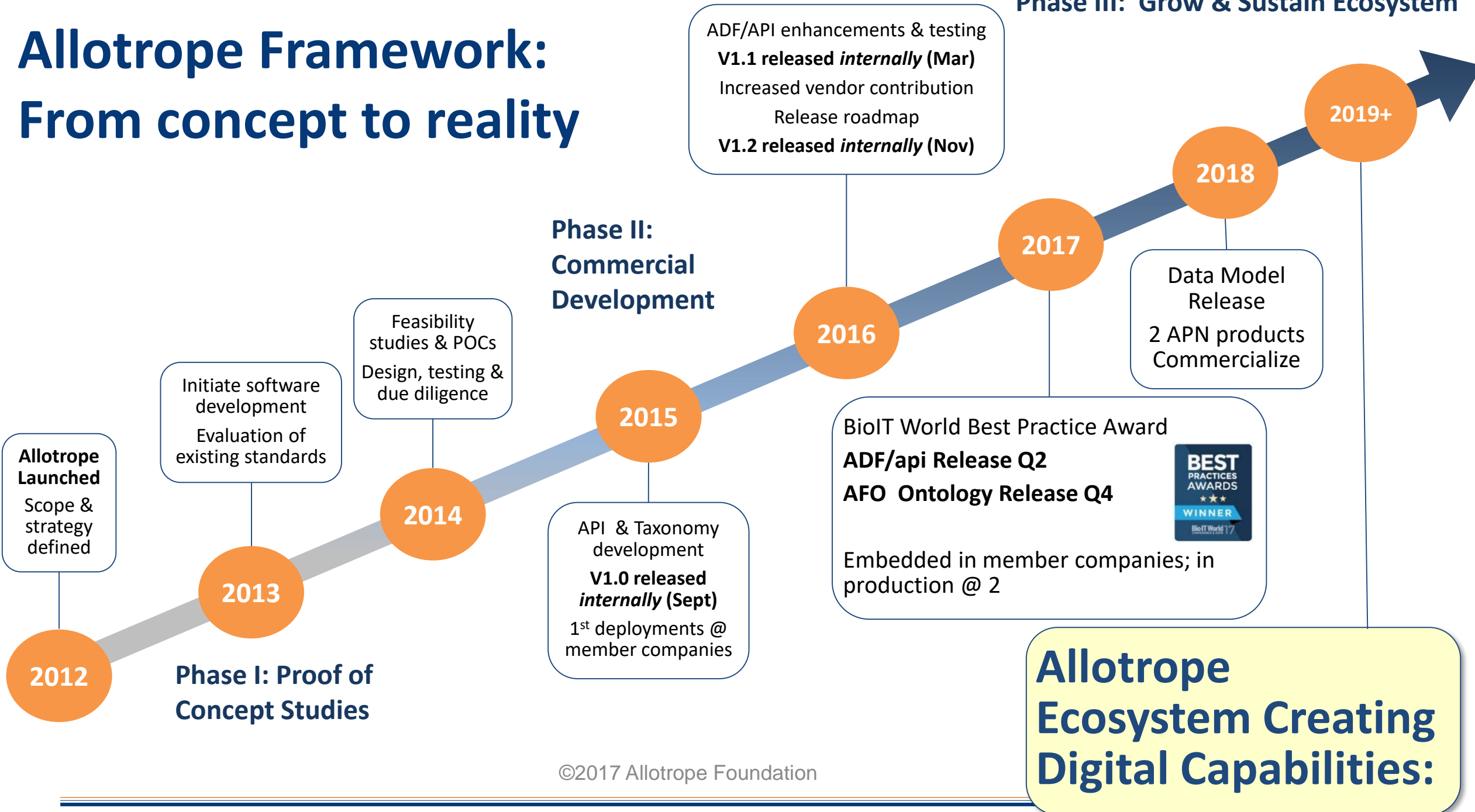| Capability	Benefit
Reproducible process	**Better Scientific Reproducibility**
Improved conformance	**Improved Data Integrity, Context, Quality**
All relevant context, real time	**Streamlined Archiving, Access, Sharing, Integration**
Reduced keyboard entropy	**Foundation for Data Science & AI**
Reduced manual effort	**More Efficient, Less Paper**
Exchangeable, portable data	**Eliminate Silos & Barriers to Integration**
Flexible, fit for purpose	**Simplified, More Adaptable IT**

Allotrope Framework: From concept to reality

Phase III: Grow & Sustain Ecosystem

Phase II: Commercial Development

Phase I: Proof of Concept Studies

2012
Allotrope Launched
Scope & strategy defined

2013
Initiate software development
Evaluation of existing standards

2014
Feasibility studies & POCs
Design, testing & due diligence

2015
API & Taxonomy development
V1.0 released internally (Sept)
1st deployments @ member companies

2016
ADF/API enhancements & testing
V1.1 released internally (Mar)
Increased vendor contribution
Release roadmap
V1.2 released internally (Nov)

2017
BioIT World Best Practice Award
ADF/api Release Q2
AFO Ontology Release Q4
Embedded in member companies; in production @ 2

BEST PRACTICES AWARDS
★ ★ ★
WINNER
BioIT World '17

2018
Data Model Release
2 APN products Commercialize

2019+

Allotrope Ecosystem Creating Digital Capabilities:

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Its not about designing and building anymore

Phase III: Grow & Sustain Ecosystem and Framework

- Take full ownership of the Framework on behalf the community
- Evolving staffing & resourcing
  - Allotrope employees
  - Growing community development contributions
  - Growing supplier diversity
- Fostering and support development of skills and tools for developers
- Continue fostering the community
- Always working to improve communication channels
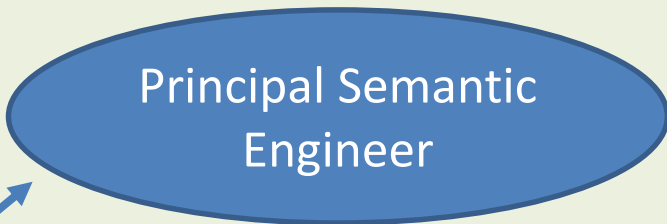
Thank You OSTHUS for 5 years of 120% commitment!

- Insightful recognition of requirements

- Innovative solutions

- Creative problem solving

- Consistent excellence in execution

- Highest level of partnership

Thank you to our host & sponsors....

Allotrope Foundation

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Gold sponsor

L7INFORMATICS

Allotrope Connect Public Workshop – Tuesday 9 April 2019

Time	Agenda Topic
19:30	**Dinner** (Pre-registration Required, If you are signed up you will find an invitation in your calendar) BEST WESTERN HOTEL, 1 Place de l'Europe, 78140 Velizy

15 min walk from Dassault