How to implement BIM in a 6000+ staff company and to remain mentally sane...?

François Appéré

@Francois_Appere

Regional BIM Manager, Arcadis North America
Learning Objectives

LEARNING OBJECTIVE 1
Discover the key drivers of the implementation of BIM within a large-scale organization.

LEARNING OBJECTIVE 2
Understand how to develop an efficient BIM strategy and how to achieve this business transformation.

LEARNING OBJECTIVE 3
Discover how to gain trust from stakeholders and how to manage expectations.

LEARNING OBJECTIVE 4
Understand how to streamline time and to avoid being overwhelmed.
About the speaker

Who I am..?

BIM Lead for Arcadis North America
Masters degrees in Civil Engineering & BIM Management
Bridge design - Infrastructure project management
Change management
New technologies
...Outdoors lover

I am not...

A Revit expert
A programmer
Agenda for today

• Few words about Arcadis
• Context of digital disruption
• Arcadis vision
• Regional approach
• Personal tips
Few words about Arcadis
Arcadis at a Glance

We are the leading global natural and built asset design & consultancy firm working in partnership with our clients to deliver exceptional and sustainable outcomes through the application of design, consultancy, engineering, project and management services.

2018
Best Management Consulting Firms
Forbes

#5
Top 225 International Design Firms (2018)
Engineering News Record

#12
Top 200 Environmental Firms (2018)
Engineering News Record
We Address the World’s Most Pressing Challenges

- Globalization
- Urbanization
- Mobility
- Climate Change
- Sustainability
- Scarcity
- Asset Productivity
- Energy
- Natural Resources
Global Reach

Our global network seamlessly brings together our knowledge and experience of projects worldwide…
Local Presence

…and applies that expertise to your local needs.
Context of digital disruption
Digital technology adoption

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<tr>
<th>Sector</th>
<th>Assets</th>
<th>Usage</th>
<th>Labor</th>
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DATA is the new "GOLD"
Arcadis vision
BIM implementation is a BUSINESS transformation
100% BIM – What does it look like?
Level 0: Paper based

Level 1: Object-orientated computer readable datamodels

Level 2: Sharing information in a federated model single source of truth based on a predefined and collaborative process

Level 3: Open shared information throughout the asset lifecycle, including performance and operation data
# Arcadis BIM Skeleton

## Project Management & Organization

<table>
<thead>
<tr>
<th>Client</th>
<th>Data</th>
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<td>Culture and monetization</td>
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<td>Governance and processes</td>
<td>Processes</td>
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Arcadis BIM Skeleton

**Project Management and Organization**

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- Processes
- Technology
Regional approach
BIM in Arcadis North America

BIM for Build Assets

BIM for Natural Assets
Project Management & Organization
Have a plan, communicate it, stick to it!
Roadmap

ASSESSMENT

CURRENT SITUATION

• Level of awareness
• Maturity
• Stakeholders (including clients)
• Practices (standard, process, technology...)

REPORT

COMMUNICATE

• Corrective actions
• New objectives / targets

OBJECTIVES

AMBITIOUS BUT REACHABLE

• Aligned with business maturity
• Customizable
• Measurable KPI

TRANSPARENT AND BROAD

• Where are we going, as a company?
• Showcase best practitioners
• Share success stories

NEXT STEPS

• Corrective actions
• New objectives / targets
Roadmap

Phase 1
- 2018

Phase 2
- 2019

Phase 3
- 2020

Pilot projects
- BIM unless

100% BIM
No “I” in TEAM

Community of Practice
- Champions
- Ambassadors
- Steering committee
- Key contacts

Open group of people interested in BIM

BIM promoters

First contact person for each business

Best BIM practitioners

Key contacts + Business Lines (sponsor) + HR
People
Normal Distribution
“Normal distributions are often used in the natural and social sciences to represent real-values random variables whose distributions are not known.”
...and Innovation adopters

- Innovators
- Early adopters
- Early majority
- Late majority
- Laggards

0.1% 2.1% 13.6% 34.1% 34.1% 13.6% 2.1% 0.1%
Engage people!

Visual

Interactive

Always Accessible
Engage them all!
Train staff to the right tool at the right time.
Focused approach / prioritization

- Project selection
- Team definition
- Guidance - mentorship
- Proper support
- Follow up
Processes & Technology
Do not reinvent the wheel...

...use it!

https://saebamini.com/good-practices-for-enterprise-integrations-over-the-azure-service-bus/
LESS is MORE

- Value
- Consistency
- B-dis-I-M
BIM Execution Planning

http://au.autodesk.com/au-online/classes-on-demand/class-catalog/classes/year-2015/revit-for-architects/as10034#chapter=0
Technology is evolving very rapidly

- Cloud(s)
- Big Data
- Machine learning
- Artificial Intelligence
- Generative Design
Personal tips
Time and task management

- Inbox
- Number of Items in Inbox: 232
- Reminders: 18
- Colors of Appointments in Calendar
Stay up to speed and connected!
Go out and explore the world...