AWP Conference 2023

Reduce your R-I-S-K for Data Breaches

R-I-S-K is a simple and easy to remember acronym of cybersecurity best practices.

R: Run Updates

Regularly update your phone. Your phone is programmed to alert you when software updates are available. Delaying or ignoring updates can make your device more vulnerable to attacks.

I: Initiate Connections

Avoid "automatically" connecting to Wi-Fi networks, Bluetooth connections, and GPS tracking. These are great connectivity tools, but when not using them, turn them off. Hackers can create hotspots that spoof Wi-Fi networks.

S: Simplify Browsing

Don't visit unfamiliar sites or download questionable content – memes, images, or files. If accessing bank or financial information, avoid using public Wi-Fi connections.

K: Keep Passwords Secure

Safeguard passwords by updating them regularly, diversifying them across accounts, and increasing complexity.

Source: SmartSocial.com

Why are we here?

PURPOSE:

Share the success and learnings of the **CII** effort around applying **AWP** to **Engineering** to encourage people to download the report (when published) and put it into practice in their organizations.

AGENDA:

- Who are we?
- Why is this important?
- How did we approach the problem?
- What did we find out?
- What should you remember?
- What do you want to know?

Think AWP Is Just For Construction? Think Again!

Opportunity Introduction

- ✓ Engineering too often sees AWP as an impediment or barrier.
- ✓ We have failed to properly address “what’s in it for me?”.
- ✓ This JWG focuses on bring Engineering more closely into the AWP fold and making it worth their effort.

Opportunity Introduction

ADVANCED WORK PACKAGING
Community for Business Advancement

CII AWP CBA
AWP For Engineering
Leading Practices

Abstract
The purpose of this effort is to define AWP leading practice for Engineering

Created by:
The CII AWP CBA Engineering Joint Working Group

Published:
31st December 2023

Content:

- Engineering Process to Support Construction & Operations
- AWP Process for Benefiting Engineering Directly
- Data Support for AWP
- Contract Requirements for AWP in Engineering
- Overcoming Culture Barriers to AWP in Engineering

Who, What, When, Where?

STATUS:

- Report Drafted
- Currently Under Peer Review

NEXT STEPS:

- Provide to CII for Review and Approval
- Publish by End of 2023

OUR TEAM OF CONTRIBUTORS!

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Does Engineering have a big role to play in making AWP successful on a project?

Why Does Engineering Matter for AWP?

Common Issues

- Lack of commitment
- Lack of alignment
- Timing of construction input
- Planning to support C&SU
- Engineering 3D model

Leading Practice Recommendations

- Commitment to the AWP process
- Early construction input
- Alignment of the PoE to the PoC
- Alignment of the PoC to the Start-up sequence
- Model data attribution and support

Should AWP benefit Engineering directly?

Should AWP Benefit Engineering Directly?

Common Issues

- Construction-centric perception of AWP
- Engrained processes
- Perceived cost of implementing AWP
- Adoption drivers – why should we?

Leading Practice Recommendations

- Level 4 Planning
- Reduction of Waste
- Constraint Management
- Path of Engineering
- Accurate Reporting
- Overall project value

What data is needed to support AWP in Engineering?

Engineering Data to Support AWP?

Common Issues

- Data Standardization
- Acceptance of Data Standards
- Data Transfer Between Tools
- Willingness to Map Data Requirements

Leading Practice Recommendations

- 3D Model Organized by CWA, CWP and Discipline
- Standard Component Types and Attributes
- Commissioning System Identification
- WBS to Support AWP
- Formalized EWP Progressing and Forecasting

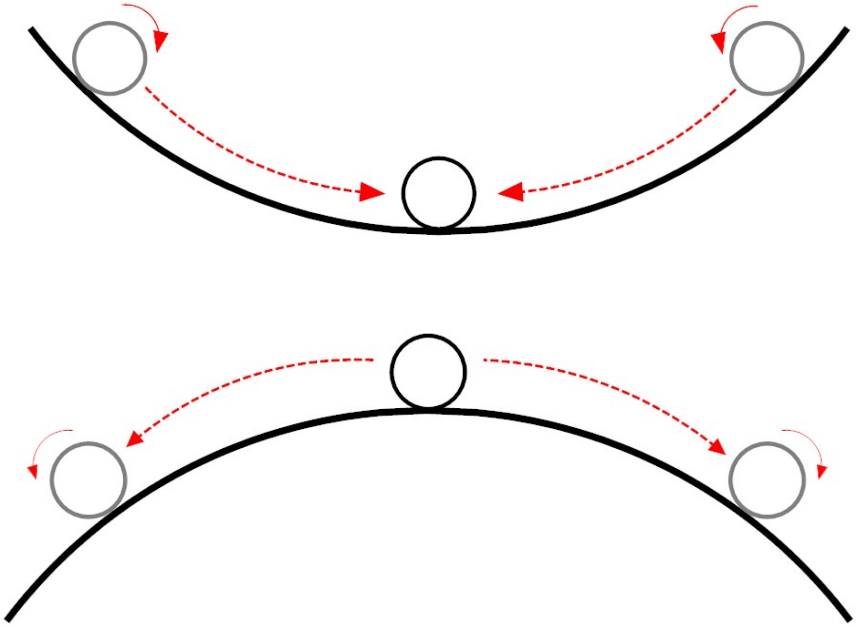
How should AWP be addressed in contracts for Engineering?

Do Contracts Matter?

Key Issue	Contracting Connection?
Lack of Alignment	✓
Late Involvement of Construction	✓
Late Involvement of Commissioning & Start Up	✓
Perception of Construction Dominion over Engineering	✓

Contracts Shape Behavior - And Resistance

Concept & images courtesy of Howard Ashcraft – Hanson & Bridgett



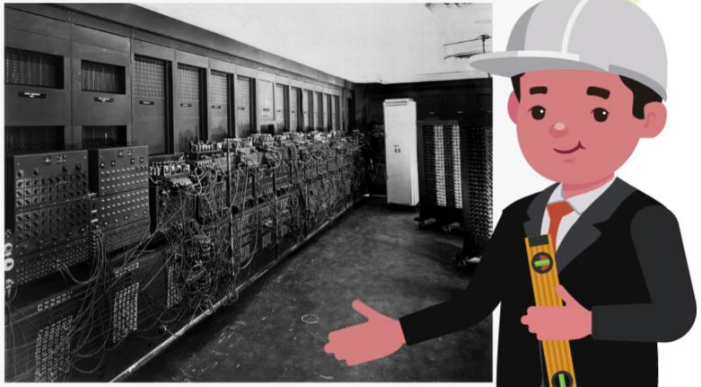
Contract language can pull the parties together.....

… Or push them apart

Key Contractual Considerations for Engaging Engineering

How can you overcome cultural challenges to AWP implementation in Engineering?

Computers are very new



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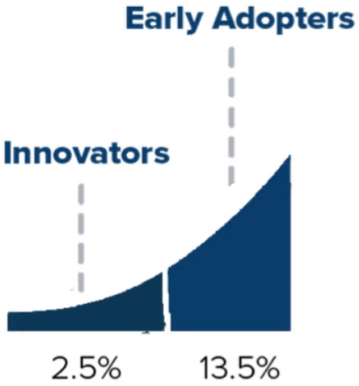
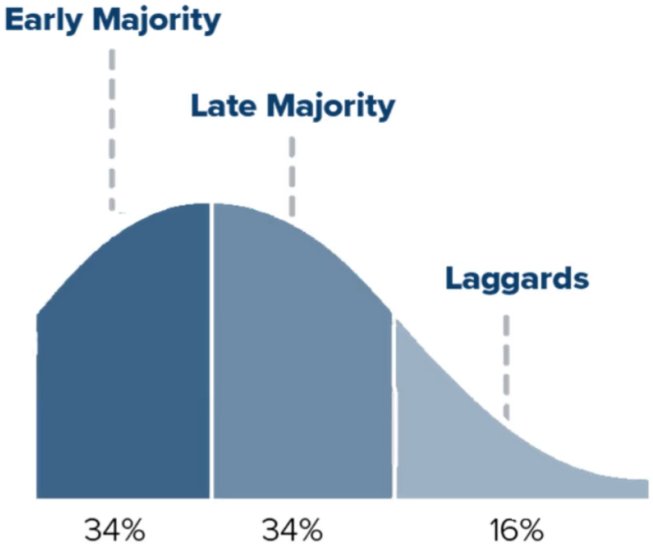
"no value in computers other than lists"


promoted for introducing innovation that helped the organization



INNOVATION



ADOPTION LIFECYCLE

Overcoming Culture Challenges

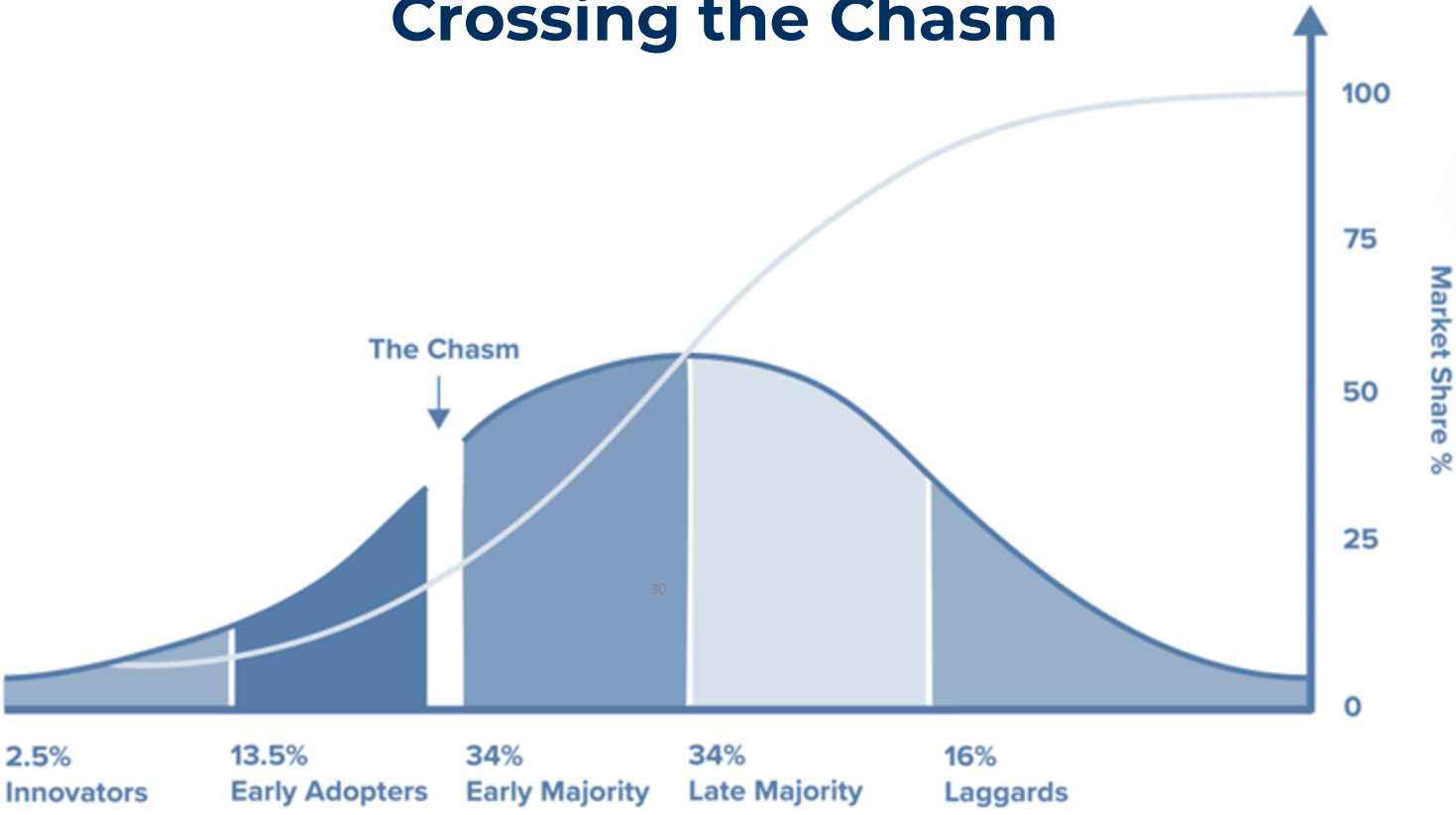
Common Issues

- Engineering historically operates in a silo
- Comfort with the Status Quo
- Reorganization of Priorities for Eng/Proc/Const
- Lack of Mutual Respect
- Failure to Invest in Early Learning

Leading Practice Recommendations

- Build a structured education plan
- Identify Early Adopter personalities
- Engage the Early Majority with metrics
- Use KPIs from the pilot to establish effective AWP education
- Remove physical barriers and enhance communication

Crossing the Chasm



https://www.tbtmarketing.com/blog/from-start-up-to-scale-up-crossing-the-chasm

Key Recommendations and Highlights

Summary of Key Recommendations

- Ensure that Engineering understands their role in successful AWP delivery
- Explore and promote the benefits of AWP to Engineering directly
- Standardize data delivery to support AWP on projects
- Create clear and consistent contracting styles to support AWP
- Identify and overcome cultural barriers with education, training and data

QUESTIONS?