

NEXT SESSION

WHEN PROJECTS MANAGE THEMSELVES: ARTIFICIAL INTELLIGENCE-POWERED PROJECT MANAGEMENT

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This session will be
recorded.

University of Maryland
Project Management
Symposium



PROJECT MANAGEMENT
CENTER FOR EXCELLENCE

A.J. CLARK SCHOOL OF ENGINEERING
Civil & Environmental Engineering Department





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Dr. Bill Brantley

2023 Project Management Symposium

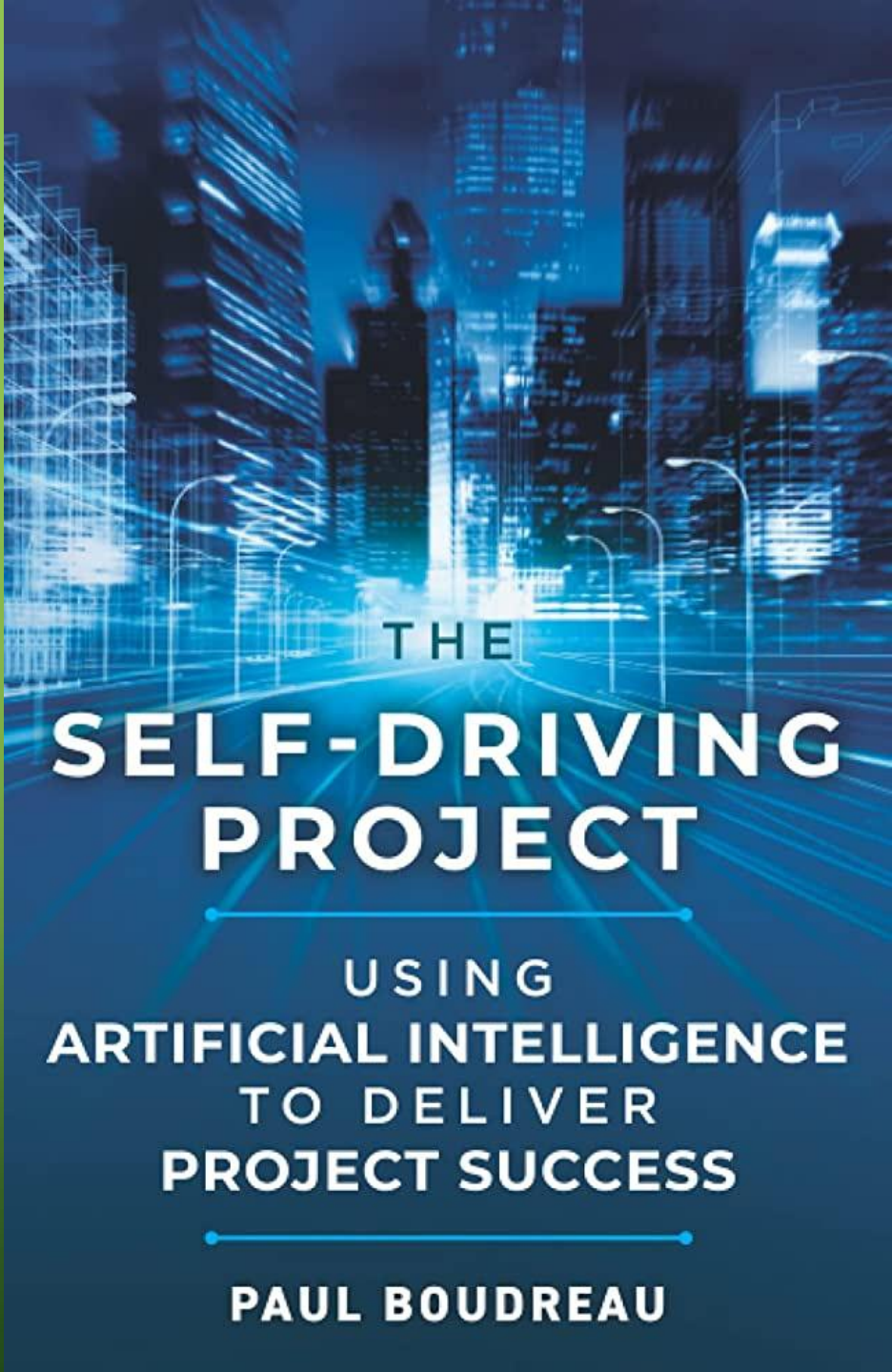
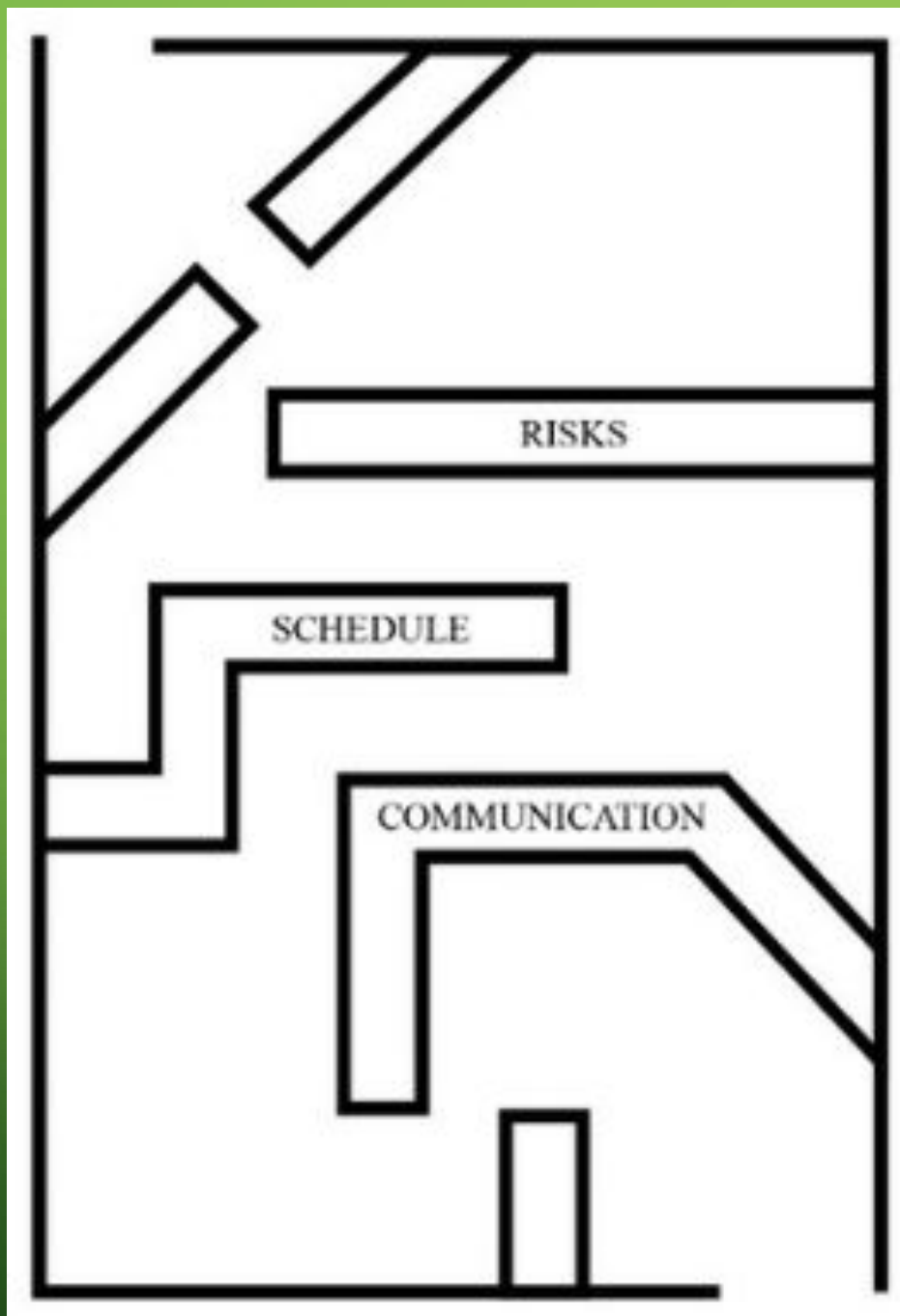
1. **Minimize variances.** This includes reducing or eliminating obstacles both before the project begins and as it is being executed.
2. **Predict precise responses.** The agent needs to interpret the project environment represented by the maze as well as the external environment that might deliver an unexpected obstacle. Based on the data, the agent uses a machine learning model to find the best solution.
3. **Enable continuous learning.** The navigation process is an ongoing opportunity to improve. As the world is not perfectly predictable, neither is a project. Through a more accurate interpretation of the environment and the learning process that comes from making mistakes, the project agent continually improves at managing projects.



THE SELF-DRIVING PROJECT

USING
ARTIFICIAL INTELLIGENCE
TO DELIVER
PROJECT SUCCESS

PAUL BOUDREAU



THE **SELF-DRIVING PROJECT**

USING
ARTIFICIAL INTELLIGENCE
TO DELIVER
PROJECT SUCCESS

PAUL BOUDREAU



A complex black and white maze with a central text box. The maze is composed of many small, interconnected paths and dead ends, creating a dense, intricate pattern. The central text box is a white square with a black border, containing the text "YOU ARE HERE" in bold, black, sans-serif capital letters. The text is centered within the box and the box is centered within the maze.

**YOU
ARE
HERE**

Leader(s) (LEVEL ONE)

- See supersignals from the complexity layer (LEVEL THREE)
 - + Mental Models
- Cognitive Biases
- Leading to Flawed Decisions

Idea
Imposition
leads to
Groupthink

Team(s) (LEVEL TWO)

- Deindividuation
- Intergroup Rivalry
- Groupthink
 - + Group Cohesiveness
 - + Anticipatory Compliance
- Rule-Based Errors
- Knowledge-Based Errors

Leading to

Risky Shift
or
Avoidance

Background Factors
Culture
Communication
Accountability

Latent Decisions

View of the Organization

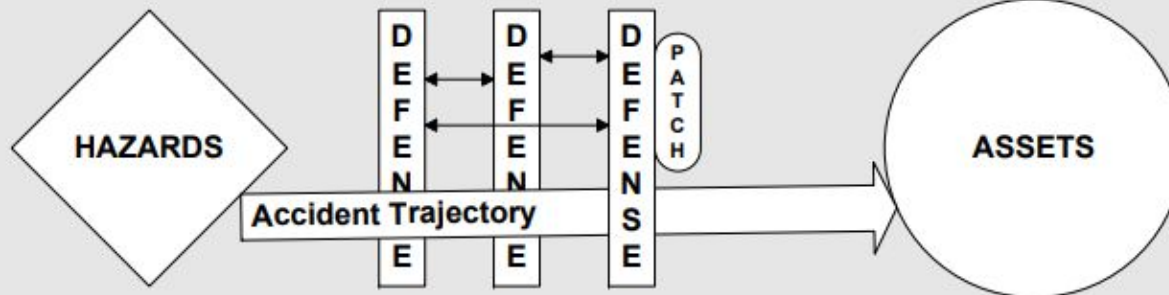
View of the Organization

Latent Decisions

Organizational Mental Model

Complexity Layer


Organization (LEVEL THREE) — As latent decisions descend from Levels 1 and 2, the defenses are weakened. Patches also erode the defenses. Defenses are also weakened by preferring production over protection. Adding more defenses just increases complexity and increases the chances for rule violations.



Framework for Analyzing
Organizational Failure




William Brantley
Walden University

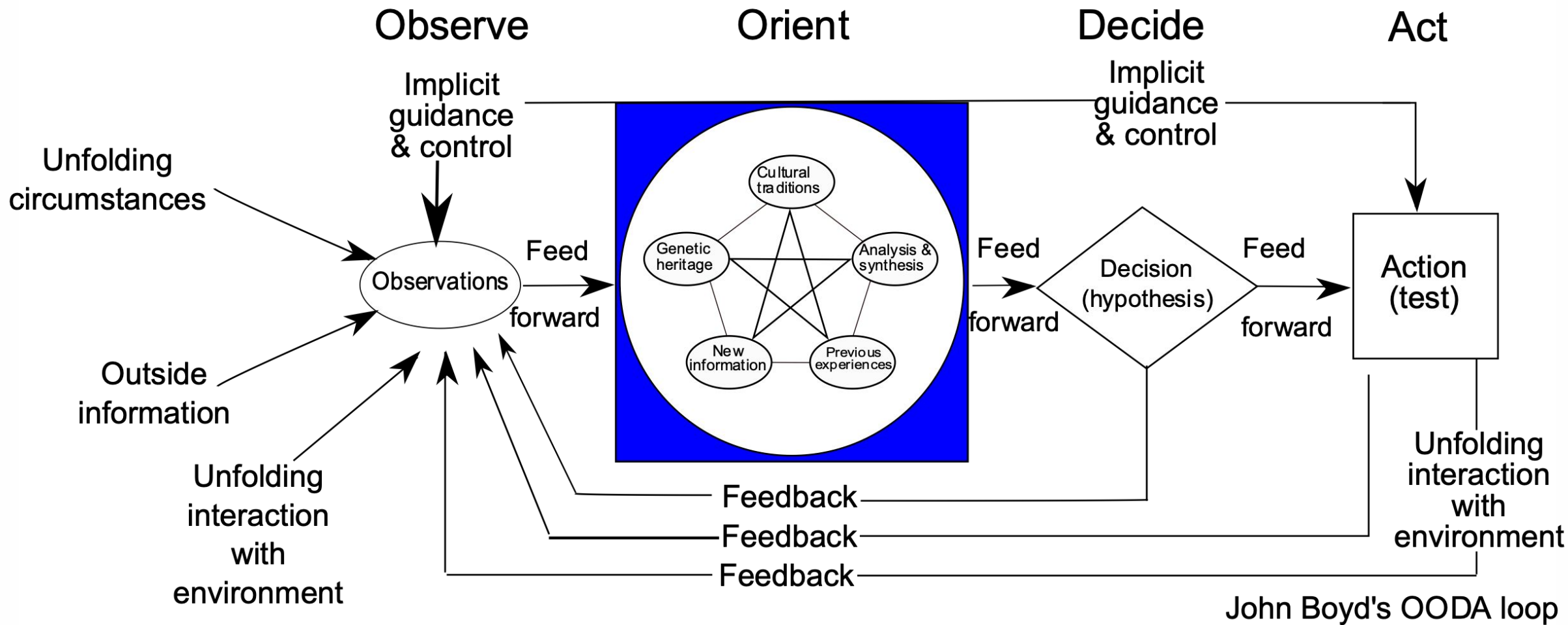
2005 Athens Residency



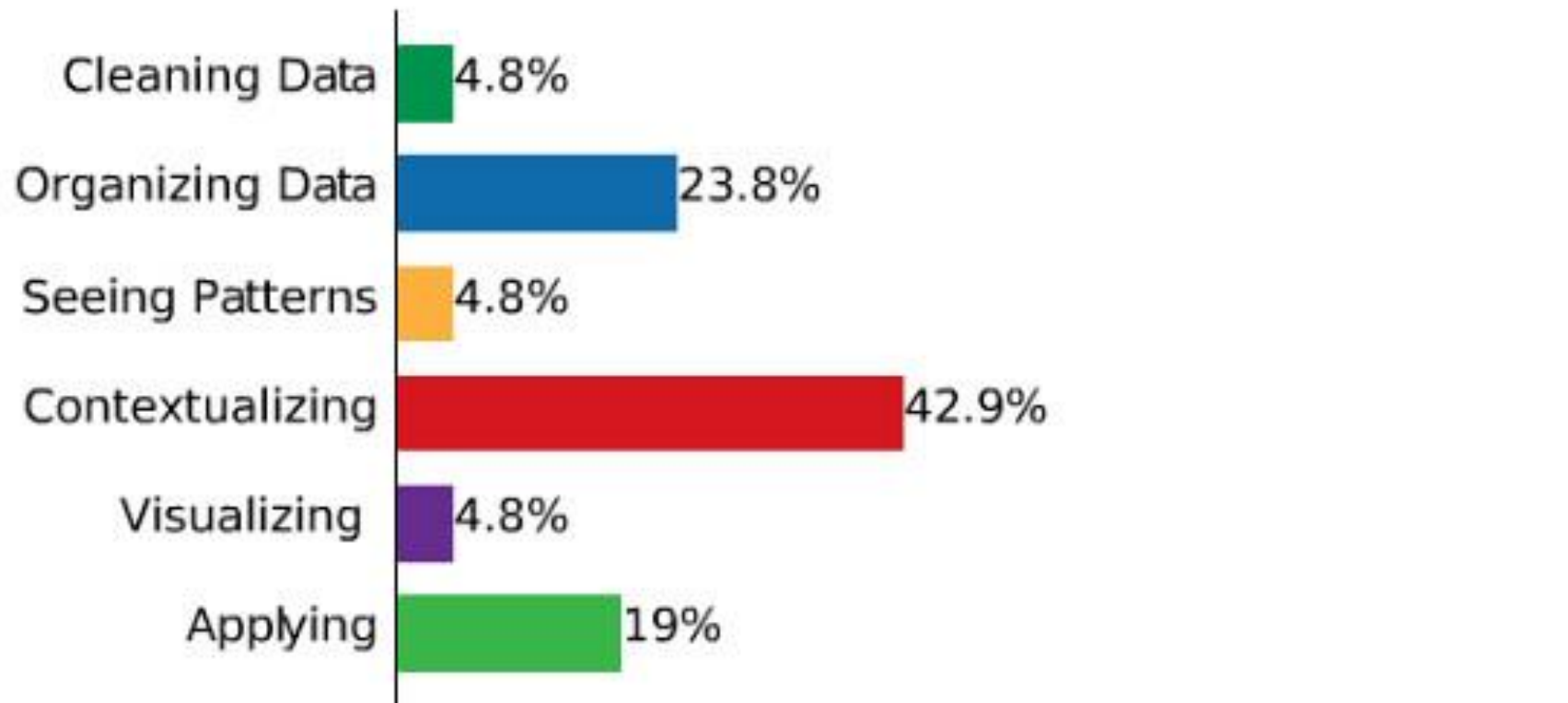
“Sense-making represents a viewpoint that sees organizations not as fixed objective entities, clearly delimited by organizational charts and management hierarchies, but as variable and multiple representations of reality (p. 381).”

Alderman, N., Ivory, C., McLoughlin, I., & Vaughan, R. (2005).
“Sense-making as a process within complex service-led projects.”
International Journal of Project Management, 23, 380-385.





What is the most challenging part of sense-making?



Six Stages of Project Performance Management

1. Understand the business case.
2. Define project goals.
3. Establish data points to measure results.
4. Assign milestones, action items, and deadlines.
5. Set up meetings to check progress.
6. Do a final project report/assessment.

1. Ayanza



Ayanza
Everyone in organization

Company hub

About us

Achievements

Strategies

Offices

Paris

London

Amsterdam

Values

Calendar

Wiki

Contacts

Team knowledge

New space

HR
3 members

IT
6 members

Marketing
3 members

Product
5 members

New team

Ayanza

Newsfeed Vision OKRs Tasks Daily Standup Custom space +

Add a new story

Space

Task

Objective

Whiteboard

New

SUGGESTIONS

Rhythm

Daily Standup

19 Wed 12:00

3/5

Workplace

In the last seven days, I have received recognition or prai...

Strenghts

What strenghts you had?

Show 15 new posts

Justin Case
19:23

Vision & Values

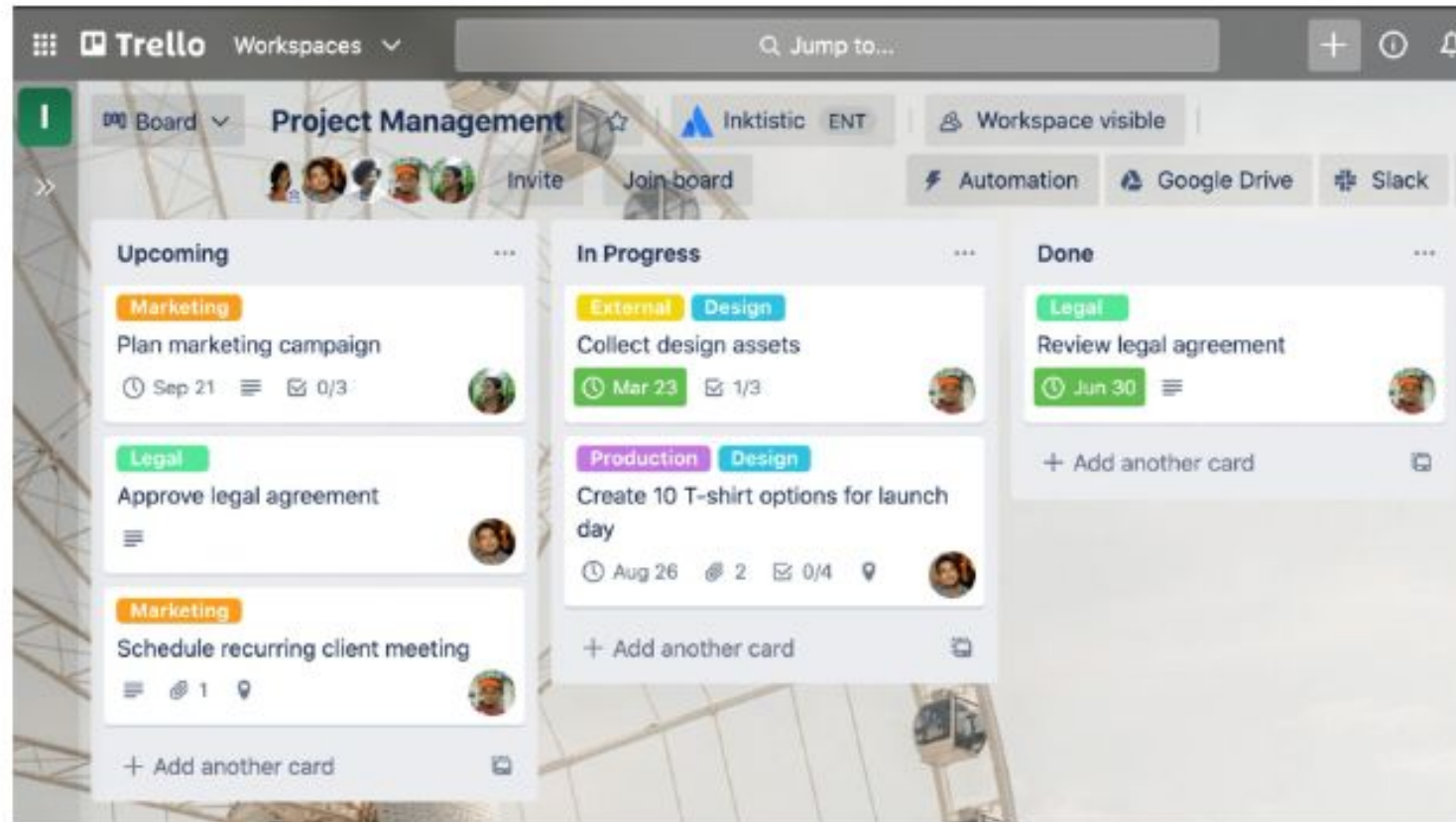
In: Ayanza

#Vision #Values @Ayanza

More healthier, better aligned orgs, common co-created vision, people more satisfied / fulfilled by the work they do together, simpler tech stack - less tools, higher productivity - less communication channels, better communication & collaboration. // please elaborate @Jane Doe //

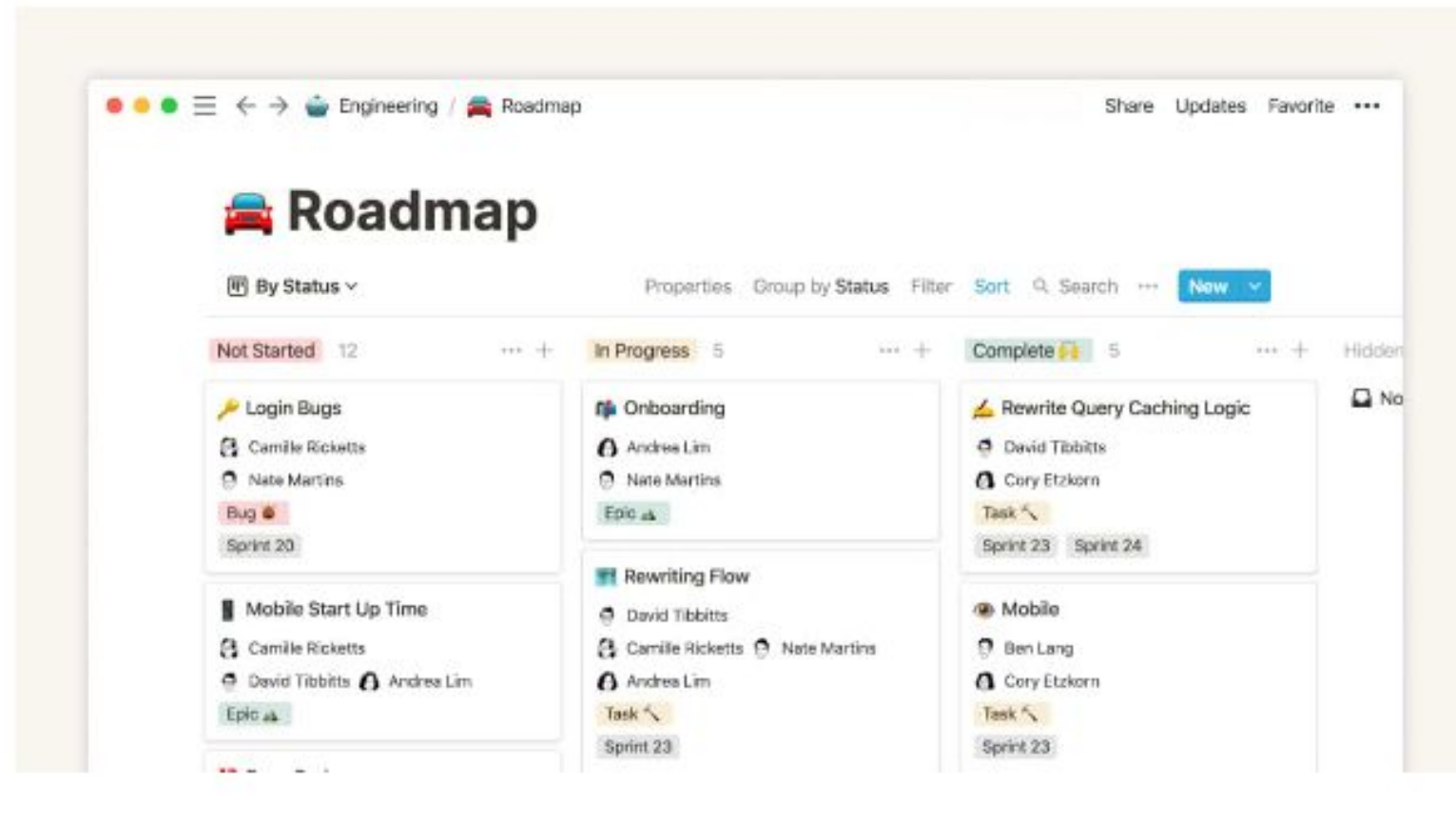
Better understanding between people, talk more to each other, know themselves/each other better, get along better

3. Trello



5. Notion

Notion



7. Wrike



The screenshot displays the Wrike web application interface. At the top, a dark teal header bar contains a home icon, a notification bell with a red "3", the Wrike logo, a search bar with the placeholder text "Search", and a green plus icon for additional actions.

The main workspace is divided into three primary sections:

- Inbox:** Located on the left, it lists recent activity. A "Today" section includes a task from 5 minutes ago by Esther Miles about adding content for tooltips, and a task from 1 hour ago assigned to the user. A "Yesterday" section shows a task from 22:59 about creating content for insights page mocks.
- Recent:** Located in the center, it displays a grid of recently accessed items, including "Hackathon Submissions" (Folder), "Portfolio" (Folder), "Q2 2020 Product OKRs" (Project), and "Design Process Guideli..." (Project).
- Pinned:** Also in the center, it shows pinned items such as "Team's Dashboard" (Dashboard), "Release Calendar Q2 20..." (Report), and "Design Process Guideli..." (Project).

Below the "Pinned" section is a "Spaces" section with the link "Explore spaces" and four icons representing different workspaces: "Recent", "Your Team", "Product Dev", and "Office".

On the right side of the interface is a vertical sidebar with navigation icons and labels: "My tasks", "Create", "Dash", "Repo", "Show 4 m", "Share", "Blue", and "Recy".

+ Power BI

Power Apps

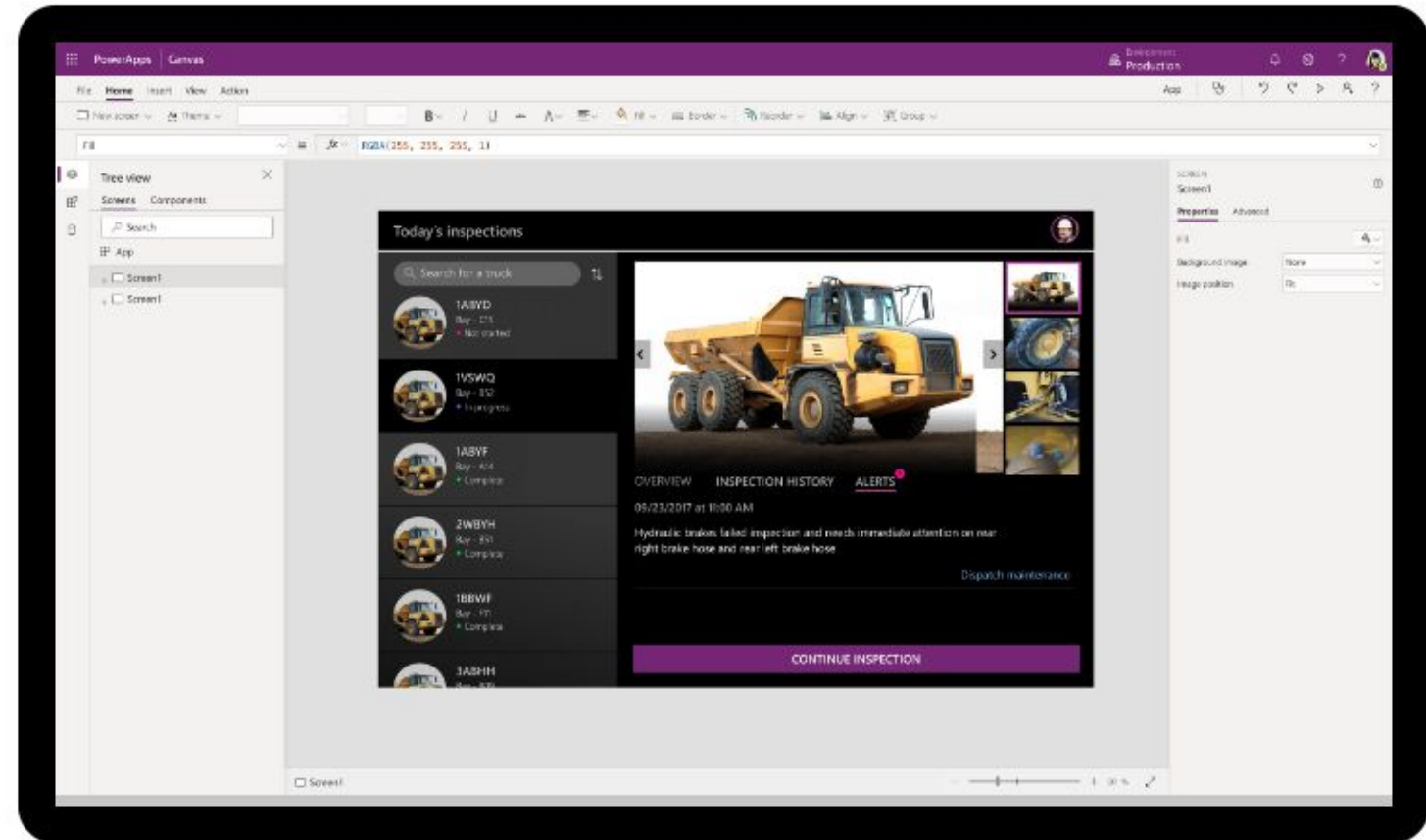
Turn ideas into organizational solutions by enabling everyone to build custom apps that solve business challenges.

[Learn more >](#)

+ Power Pages

+ Power Automate

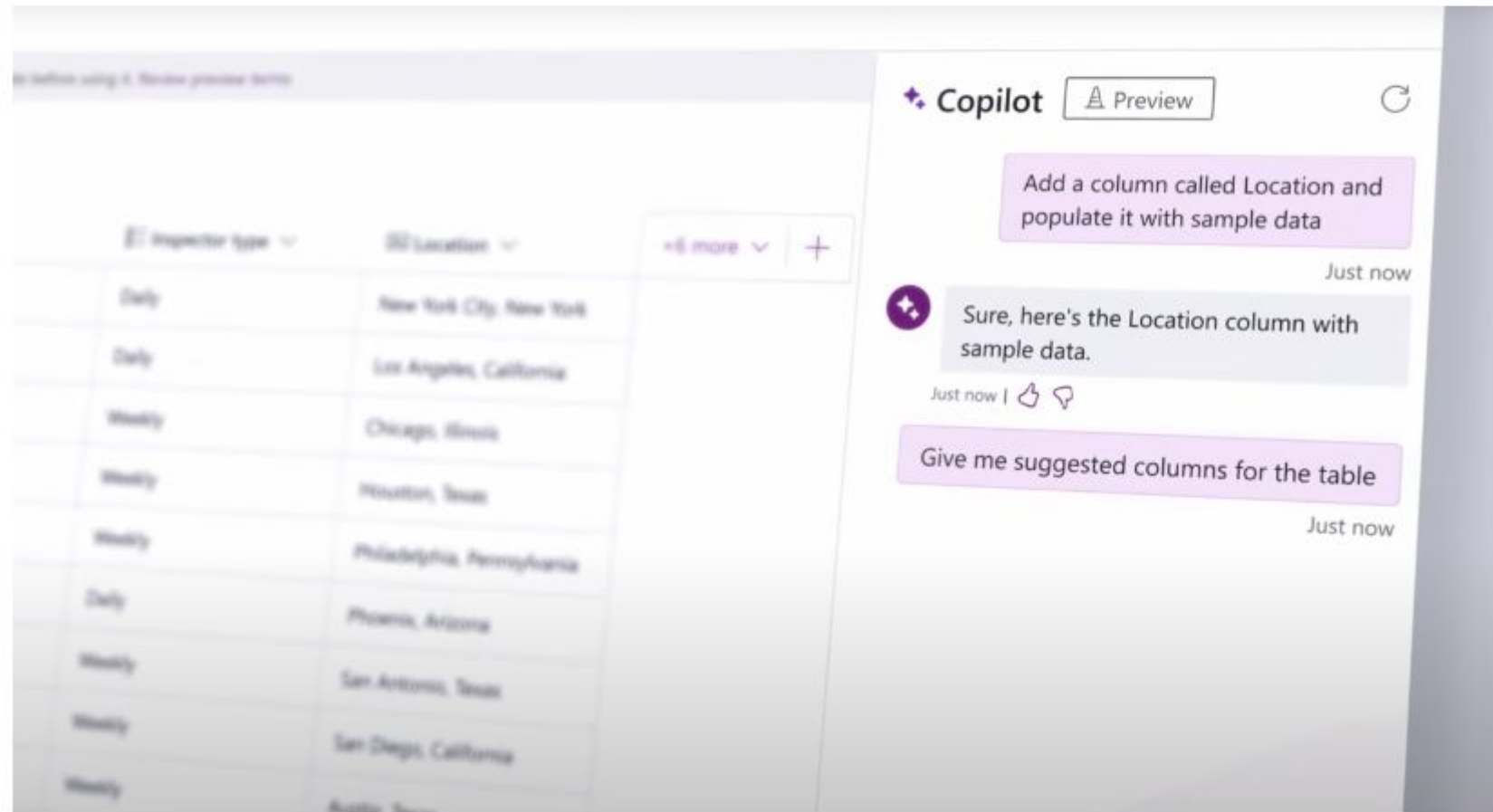
+ Power Virtual Agents



Microsoft's new Power Platform AI Copilot will build your apps for you

Frederic Lardinois @fredericl / 11:47 AM EDT • March 16, 2023

 Comment





The screenshot shows the Microsoft Power Platform AI Copilot interface. On the left, there is a table with two columns: 'Inspector type' and 'Location'. The table contains several rows of data, including 'Daily' inspections in 'New York City, New York', 'Los Angeles, California', 'Chicago, Illinois', 'Houston, Texas', 'Philadelphia, Pennsylvania', 'Phoenix, Arizona', 'San Antonio, Texas', 'San Diego, California', and 'Austin, Texas'. A '+6 more' button is visible next to the table. On the right, the Copilot chat interface is shown. It includes a 'Preview' button and a refresh icon. The chat history shows three messages: a user request to 'Add a column called Location and populate it with sample data', a Copilot response 'Sure, here's the Location column with sample data.', and a user request to 'Give me suggested columns for the table'.

Inspector type	Location
Daily	New York City, New York
Daily	Los Angeles, California
Weekly	Chicago, Illinois
Weekly	Houston, Texas
Weekly	Philadelphia, Pennsylvania
Daily	Phoenix, Arizona
Weekly	San Antonio, Texas
Weekly	San Diego, California
Weekly	Austin, Texas

Copilot Preview Refresh

Add a column called Location and populate it with sample data
Just now

Sure, here's the Location column with sample data.
Just now |  

Give me suggested columns for the table
Just now



Create a project plan for building a no-code mobile app that provides leadership training in a microlearning format. Include scope, risks, resources, and a schedule.



Project Name: LeaderBoost - No-Code Mobile App for Leadership Training



Project Objective: Develop a no-code mobile app that delivers leadership training in a microlearning format, enabling users to learn at their own pace and improve their leadership skills.

I. Scope

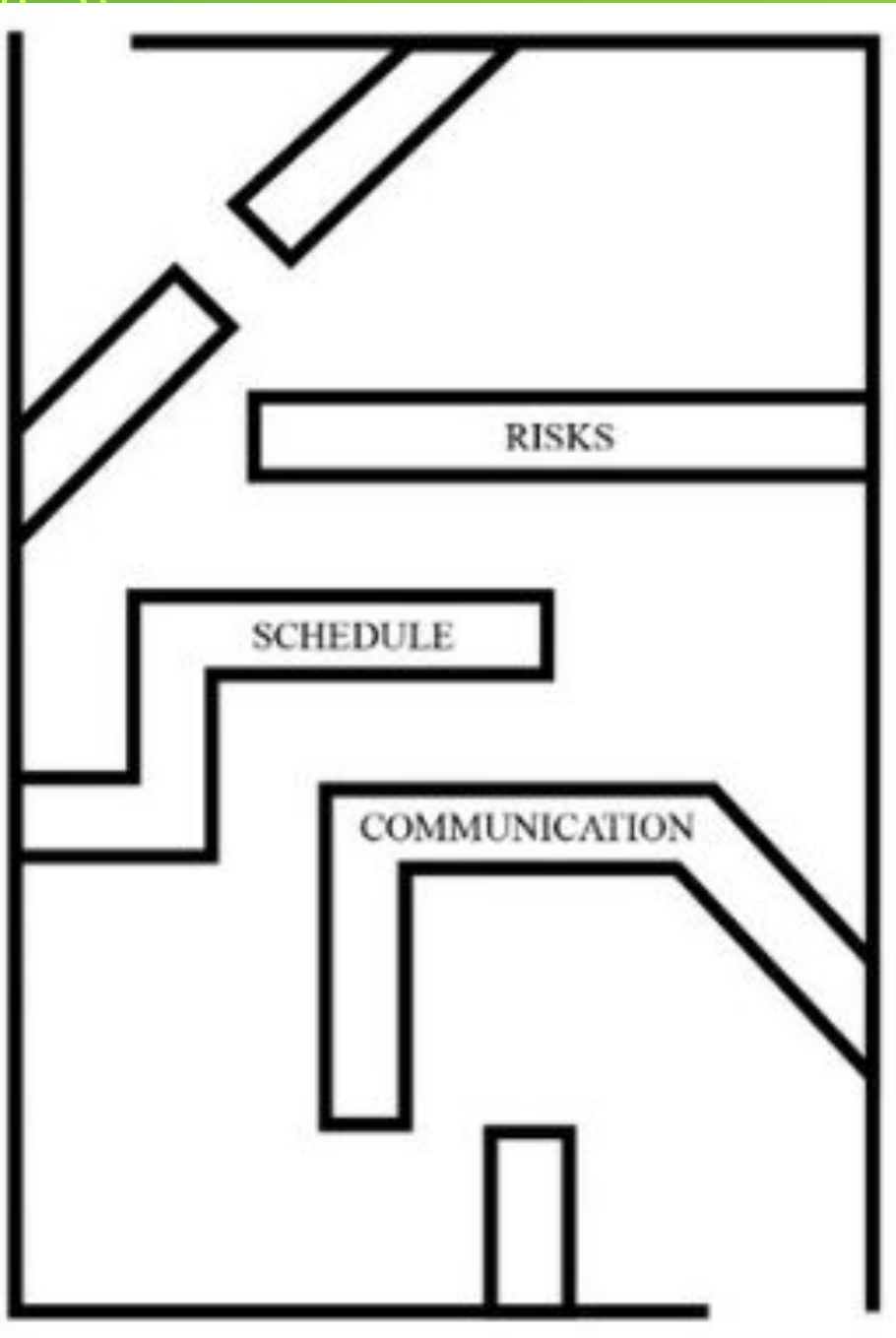
1.1. Features and Functionality

- User account creation and authentication
- Personalized learning paths
- Gamified, interactive microlearning modules
- Progress tracking and reporting
- In-app community for networking and support
- Push notifications and reminders for engagement
- Integration with popular calendar apps
- Multi-platform availability (iOS and Android)

1.2. Deliverables

- App prototype
- App store submission and approval
- User documentation and tutorials

Regenerate response



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Evaluate Session

