NOVEMBER 2022

Mobility roadmap:

Empowering a connected workforce

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Agenda

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Mobile Operator Capabilities

Connected Field Worker Duties / Proactive Monitoring

Field Worker Training on Best Practices

Asset Data from Process Historians

Offline capable for Stranded Assets

Decision Trees and Variability, not linear or static

Work Order Requests / Notifications

Focused Advice and Actions

Lockout / Tagout Tasks

Digitize Procedures

EH&S / Compliance

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Roadmap

- R2 Release – January/February
  - Azure AD authentication
  - Ping ID authentication
  - OSI-PI Core integration update

- OSI-PI Integration
  - Additional core support of custom integration
  - Tour conversion

- Technology updates
 - Cloud supportable architecture
  - Client thinning
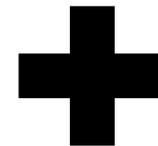
Insight mobility

Roadmap
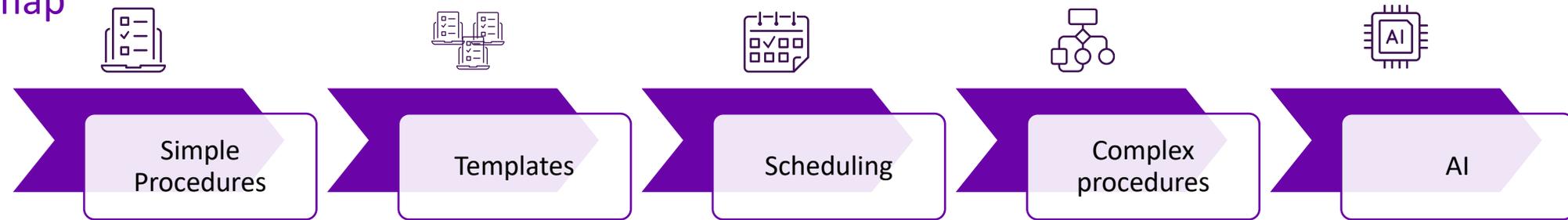
Simple Procedures	Templates	Scheduling	Complex procedures	AI
First Release (est. H2 2023)	**Procedure templates**	**Procedure scheduling**	**Advanced procedure workflows**	**AI infusion**
• Simple procedures	• Customer created templates	• Calendar sased Scheduling	• Conditions/ exceptions	• Prescriptive action procedures
• Stranded asset data	• Asset library templates	• Shifts	• Decisions	• AI schedule optimizations
• Human observation	• Prescriptive actions	• Crews	• Follow up actions	• Asset strategy procedures
• Compliance rounds		• Recurrence	• Workflow integration	

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Insight and mobile operator

The hybrid approach

- Push Insight templates to on-premise mobile operator

- AI triggered procedure schedules to on-premise mobile operator

- Workflow in the cloud trigger on-premise procedures

- Cloud based procedure auditing

Insight

Mobile Operator Edge

On-Premise Mobile Operator

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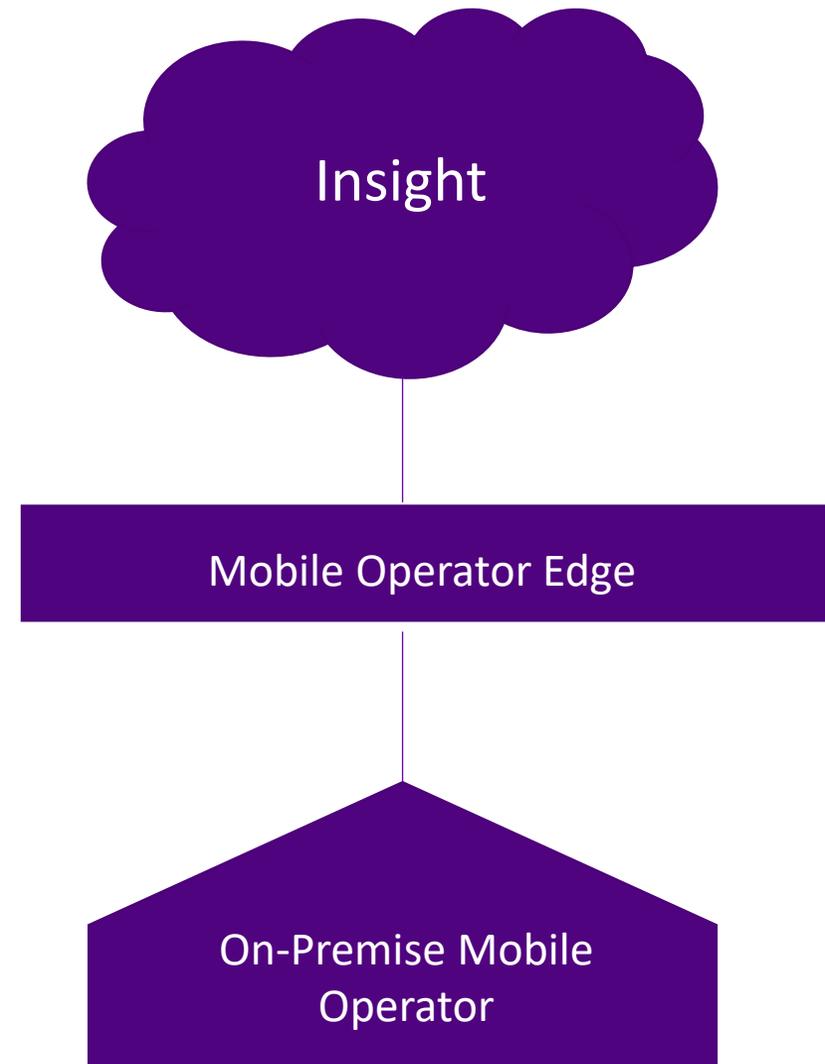
Digital procedures

There is a consistent theme

Technology → **… continuously reshapes work** → **…and the worker**

Technology

"Connected"

Scope

Location

Time

How do we change the way we **WORK?**

Worker

Activity / Task

Rules / Policies

Outcome (Metrics)

"Worker"

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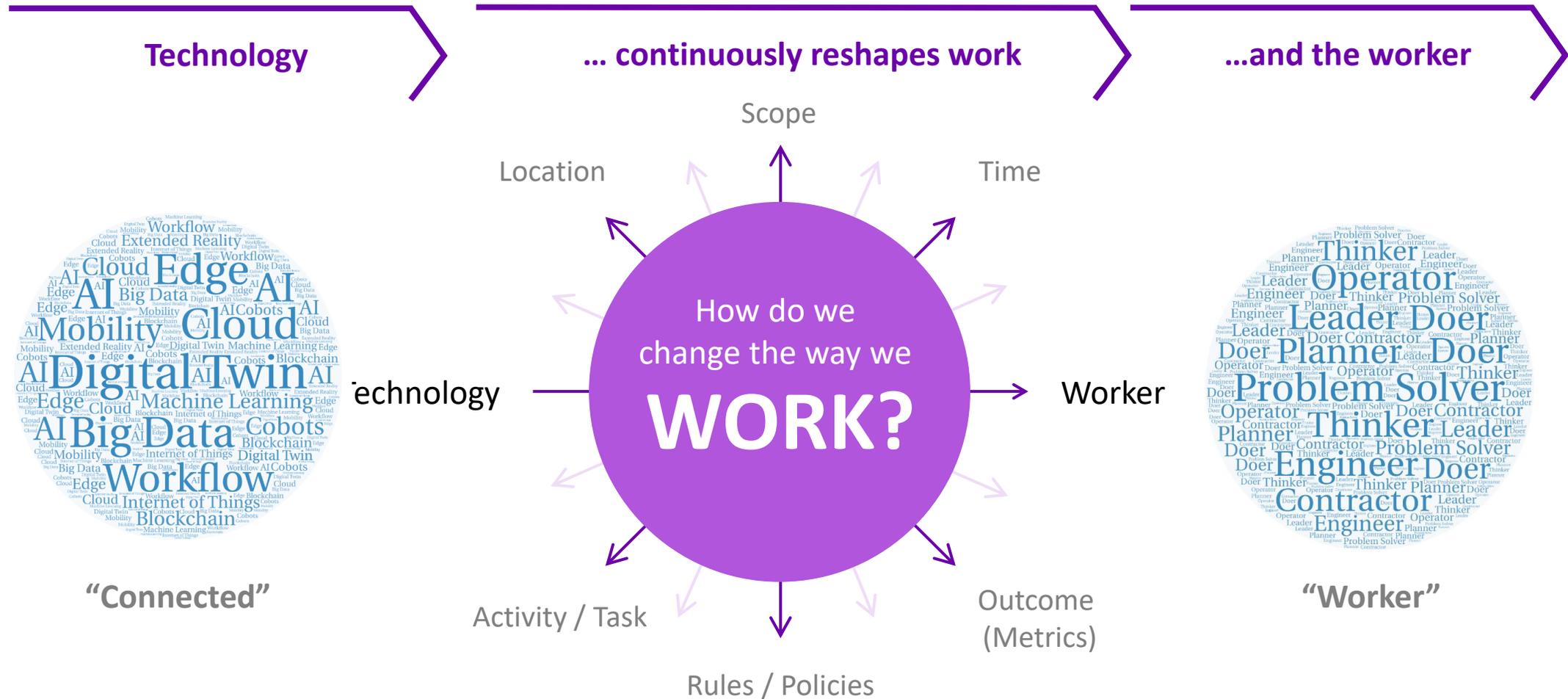
Addressing different dimensions of the same challenge

Enterprise Twin

- Source
- Make
- Deliver

Process Twins

- Plant 1
- Plant 2
- Plant 3

- Line 1
- Line 2
- Line 3

Asset Twins

- Filler
- Labeler
- Palletizer

Digital Twin

Connected Worker
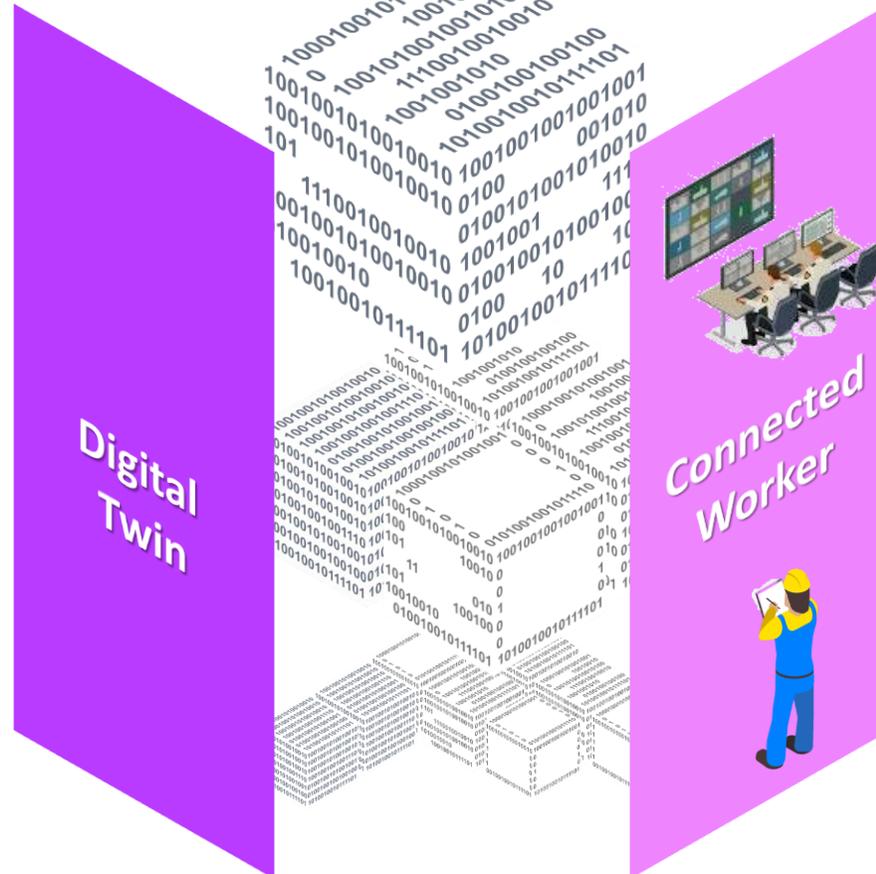
Enabling problem-solving

Am I empowered to act?
- for what outcome?

Is the context meaningful?
- to create value?

Is it available to me?
- at the right time?

Is the data in a digital format?
- and trustworthy?

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Challenge: addressing issues caused by paper-based processes

What would you say are the biggest issues caused by paper-based processes in your organization? (Max THREE) (N=449)

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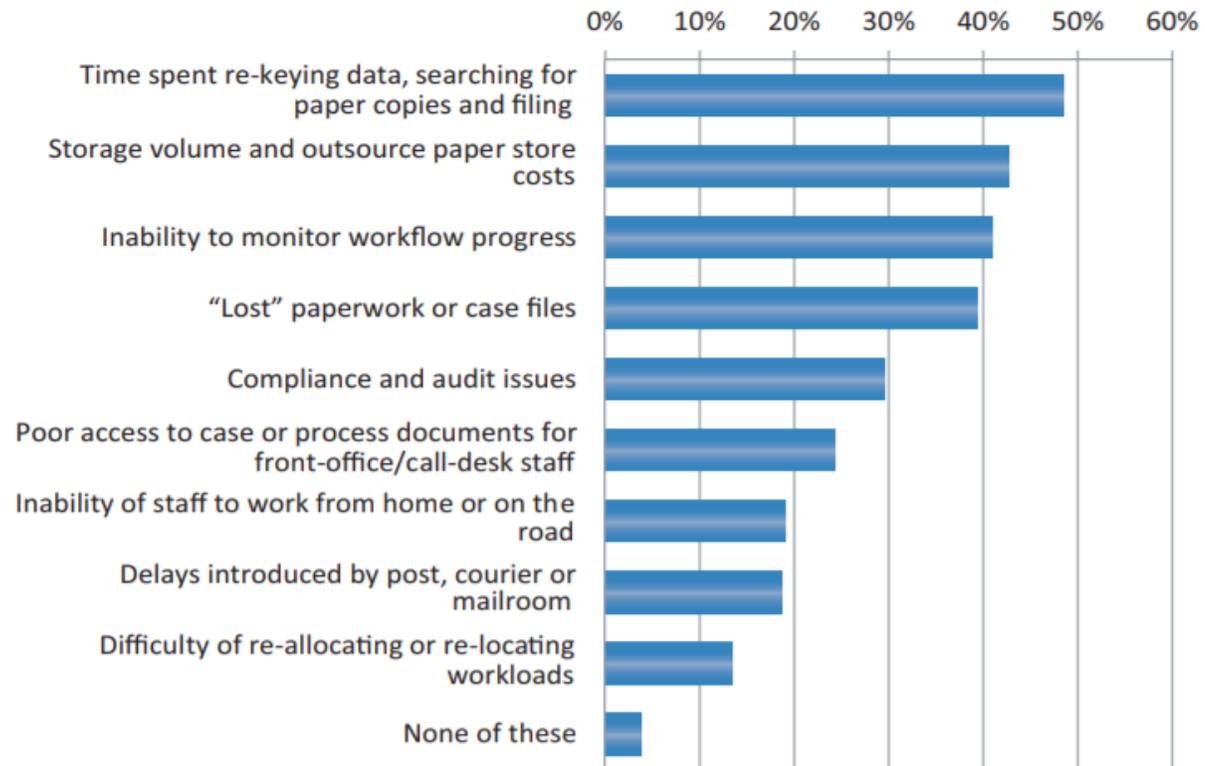
Functional Apps: addressing the challenge

Digital Procedures

Key Capabilities

- Procedure Authoring Environment
- Procedure Life Cycle Management
- Procedure Approval
- Initiate Work Tasks for Procedure Execution
- Procedure Archiving & Integration

Mobile Application Capabilities

- Procedure Execution
- Offline Execution
- Search and Browse Procedures
- Ad-hoc Procedure Execution

Digital Logbook

Key Capabilities

- Shift Handover
- Search Log Entries
- Log Entry
- Directives
- Work Instructions

Mobile Application Capabilities

- Log Entry
- Directives Acknowledgement
- Work Instructions

Completions /PSSR

Key Capabilities

- Initiate Review Process
- Selection of Review Team and Review Areas
- Review Management
- Audit Trail

Mobile Application Capabilities

- Perform Review
- Review compliance

Turnaround

Key Capabilities

- Turnaround Scope Planning
- Turnaround Scheduling
- Step & Machinery Config.
- Fit Sheets
- Turnaround Tracking

Mobile Application Capabilities

- Turnaround Execution
- Offline Execution
- Search and Browse

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Standard operating procedures

Often authored in Microsoft Word and printed out on paper for execution today

About procedures:

- Commonplace across all industries

- Vary in complexity, e.g.

  - Safety, environment & health

  - Checklists

  - Startup and shutdown

  - Turnaround

  - Routine work processes

Procedure execution

Digital procedures

Procedure authoring

Digital procedures

Configuration Wizard

Symbol Palette

Alerts

Flags

Authoring Environment

Procedure authoring

Digital procedures - rules and task completion status

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Making procedure "conversion" practical

What you will see

Robotic process automation

Work tasks

Extract the Document → **Configure** the Procedure → **Author** the Procedure → **Save** the Procedure →

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Digital procedures – conversion + authoring + execution

Conversion + Authoring + Execution

Start Node

Get files from folder

Iterate for each file

Extract details from document

Web UI

End Node
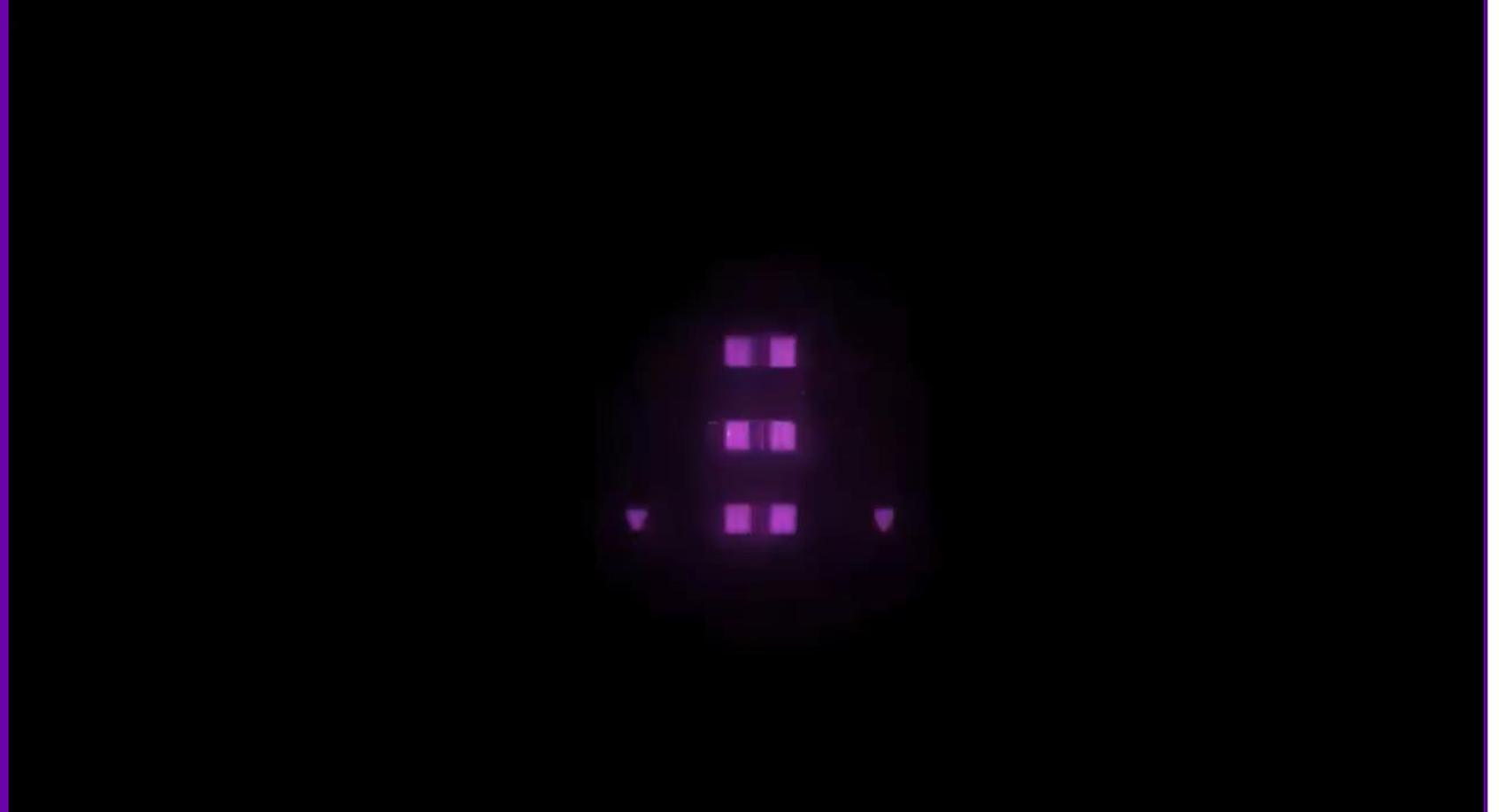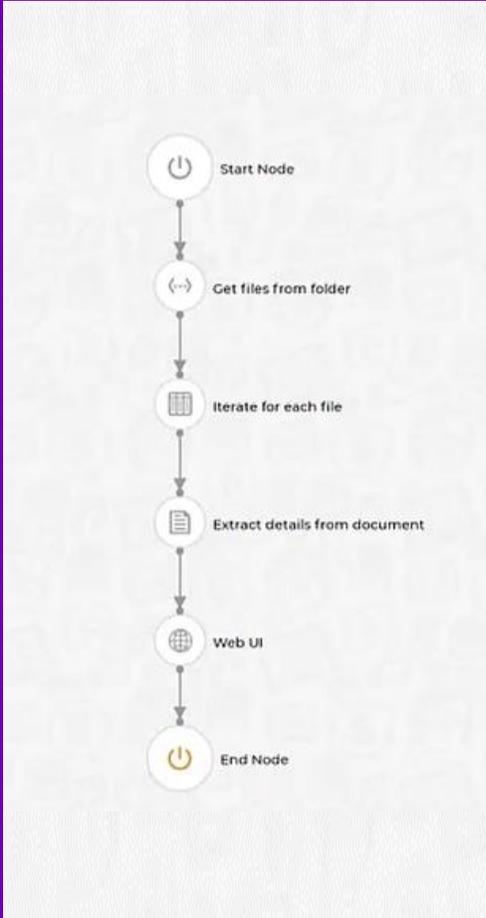
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Questions?

Please wait for the microphone

State your name and company

Please remember to...

Navigate to this session in the mobile app to complete the survey.
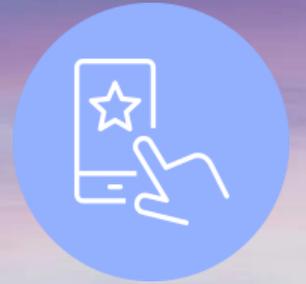
Thank you

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