

SpeakUp

A Systems-Engineering Demonstration

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Purpose

- Systems-engineering demonstration for improving how work is performed, captured, and reviewed
- Responds to explicit organizational calls for:
 - Constructive employee input
 - Process improvement ideas
- Vendor-neutral at the requirements level

Problem Statement

Constraint	Impact
Fragmented workflows	Mobile, desktop, delivery disconnected
Limited AI in trusted boundaries	Workflow degradation or abstraction
Broadcast email as work proxy	Reduced signal-to-noise
Untracked coordination systems	Limited traceability and auditability
Knowledge attrition risk	Legacy, budget, personnel transition

Governing Principle

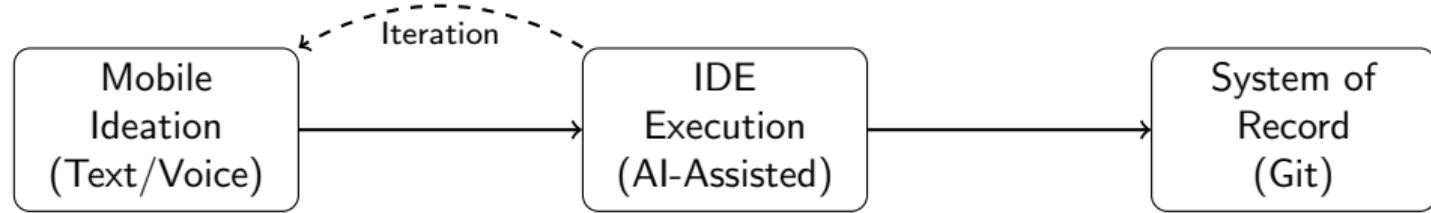
Core Principle

Thinking is necessary and expected.

Accountable work begins when thinking is captured.

Principle	Benefit
Work in structured systems	Automation support
Capture in tracked systems	Traceability
Git as system of record	Auditability
Email for notification only	High-signal communication

Proposed Workflow Model



Phase 1: Ideation

- Smartphone-based
- Text/voice input
- Problem framing

Phase 2: Execution

- Modern IDE
- AI assistance
- Trust boundary

Phase 3: Record

- Version control
- History/rationale
- Authoritative

Functional Requirements

ID	Requirement	Type
FR-1	Mobile ideation capability	Mandatory
FR-2	IDE-centric execution with AI	Mandatory
FR-3	Git-based system of record	Mandatory
FR-4	Identity and trust boundary alignment	Mandatory
FR-5	High-signal communication model	Recommended

Trust Boundary Alignment

- Security at authenticated identity
- Security at managed device
- AI operates in-boundary
- No handling rules relaxed

Information Handling

- No sensitive PII
- No CUI
- No proprietary information
- No classified information

Value Proposition

Capability	Current	Proposed
Work capture	Fragmented, untracked	Structured, versioned
AI assistance	Outside boundary	In-boundary, modular
Knowledge preservation	At-risk	Durable artifacts
Automation readiness	Limited	Maximized
Auditability	Manual effort	Built-in traceability

Implementation Approach

This demonstration is:

- **Concrete enough to execute**
 - Working repository
 - Defined outputs
- **Abstract enough to remain vendor-neutral**
 - Requirements-level specification
 - Implementation choices documented separately
- **Self-demonstrating**
 - Built using the proposed workflow

Expected Outputs

- ① **Briefing Deck** — This document (vendor-neutral)
- ② **Repository Structure** — Git-based with artifacts
- ③ **Verification Compliance Statement** — Explicit evidence
- ④ **Traceability Matrix** — Requirements to evidence

Method	Application
Inspection	Document review
Analysis	Compliance assessment
Demonstration	Working repository

Recommendation

Adopt the SpeakUp workflow model as a pattern for:

- Converting thinking into durable, reviewable artifacts
- Preserving institutional knowledge
- Enabling automation and auditability
- Maintaining security and trust boundaries

Next Steps

- ① Review this briefing
- ② Identify pilot application area
- ③ Establish repository and workflow
- ④ Iterate between ideation and execution
- ⑤ Measure and refine

This briefing was produced using the SpeakUp workflow model it describes.