

EON TACIT

SPATIAL BRAIN

Pick My Brain.

A White Paper on Navigating, Questioning and Proving
Living Organizational Knowledge



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Executive summary

Experienced people do not think in folders. They connect a sound to a machine, a machine to an operating condition, that condition to a past incident, and the incident to a decision made under pressure. Most knowledge systems break those connections into separate transcripts, files and search results. EON TACIT Spatial Brain is designed to preserve the connections and make them navigable.

The product begins with a simple human invitation: Pick My Brain. Structured interviews, follow-up questions and source material create an Expert Brain: the captured, permission-aware and evidence-linked experience of one person. Brain Fusion then connects selected Expert Brains into a Collective Brain without averaging away identity, disagreement or context. Approved Collective Brains contribute to the governed Organization Brain.

Spatial Brain is the 3D interface used to explore any of those knowledge bodies. It synchronizes three experiences: Navigate the graph, Ask a normal question, and Prove the answer from the source. The Situation Room becomes an operational mode within Spatial Brain; the Field Brain uses approved Brain Packs when knowledge must travel offline or into restricted environments.

CORE PRINCIPLE The system must make knowledge easier to use without making it look more certain than the evidence allows.

1. Why organizational knowledge needs a spatial interface

The know-how that never becomes a procedure

A procedure describes the intended path. Experience often lives in the exceptions: the sound that appears before the alarm, the indicator an operator stops trusting, the question a permit coordinator asks when the paperwork looks correct but the job does not feel safe, or the moment a startup is paused because several weak signals point in the same direction. Those judgments are valuable precisely because they sit between formal instructions and messy reality.

Traditional search retrieves documents. A chat interface can summarize them. Neither, by itself, shows the user how people, topics, situations, decisions, sources and disagreements connect. A spatial map makes those relationships visible and gives the user a path through them.

The 3D interface is not decoration

- It helps people keep orientation while moving from the organization to a topic, expert, incident or exact source.
- It reveals agreement, contradiction, unique knowledge and unanswered questions across interviews.
- It allows one question to become a visible trail that can be revisited, compared and audited.

- It gives leadership a way to see where knowledge is strong, fragile, stale, disputed or concentrated in one person.



Concept view: a synchronized Spatial Brain, question workspace and evidence pane.

2. The EON TACIT Brain product family

The family uses a memorable Brain language, but each term has one precise job. Brain is a product metaphor for consented, evidence-linked organizational experience; the system does not claim to read or reconstruct a biological brain.

Term	Meaning
EON TACIT	The product family and primary brand.
Pick My Brain.	The subtitle and human invitation. The capture module is Pick a Brain.
Expert Brain	One person's captured, evidence-linked experience.
Brain Fusion	The governed process that connects selected interviews and Expert Brains.
Collective Brain	The saved result for a team, topic, asset, project, facility or situation.
Organization Brain	The complete governed organizational knowledge environment.
Spatial Brain	The 3D interface for exploring and questioning any Brain scope.
Situation Room	A focused operational mode inside Spatial Brain.
Field Brain	The field and offline environment.
Brain Pack	A curated, approved, versioned and portable subset for a Field Brain.

Term	Meaning
Trust Vault	The evidence, consent, permission, review and versioning layer.

NAMING RULE Spatial Brain is the interface. Expert, Collective and Organization Brain describe the knowledge being viewed.

3. The core experience: Navigate, Ask, Prove

Navigate

The left side of the experience shows the 3D Spatial Brain. Users rotate, zoom, focus and follow branches among people, topics, equipment, conditions, decisions, incidents and sources. Semantic zoom prevents a large Organization Brain from becoming a hairball: a far view shows Lobes and density, a middle view shows clusters and experts, and a near view shows individual knowledge nodes and relationships.

Ask

The center provides a conversational interface. A user asks a normal question. TACIT identifies the intended Brain scope, detects ambiguity, retrieves direct evidence and related knowledge, searches for conflicts and composes an answer that distinguishes direct statements, reviewed synthesis, unresolved disagreement and missing information.

Prove

The right side shows the evidence behind each important part of the answer: expert, interview, question, transcript excerpt, audio timestamp, real or synthetic status, review state, freshness and supporting or conflicting sources. Clicking a sentence highlights its graph nodes and sources; clicking a node highlights the answer and evidence. A user never has to accept “the AI says so.”

PRODUCT PROMISE Navigate the experience. Ask the brain. Prove every answer.

4. The Clarification Pop-on

Ambiguity is unavoidable. A user who asks “What do people know about air conditioning?” may mean building HVAC, electrical-room cooling, equipment cooling, instrument air or compressor inlet conditions. A normal chatbot may silently choose one interpretation and produce a polished answer. Spatial Brain should make the ambiguity visible before following the wrong branch.

How the pop-on behaves

- A lightweight Peek appears on hover or keyboard focus with the name, type, Lobe and one-line summary.
- A locked Pop-on appears on click, tap or Enter and explains what the item is, why it matters, its trust state, sources, freshness, conflicts and available actions.
- When a question is ambiguous, the Pop-on asks a short clarifying question and offers plausible meanings plus “Show me everything.”
- The system may begin showing obvious matches while waiting, but it must label the scope as provisional.
- The user can pin the Pop-on, follow a Trail, open evidence, compare experts, add the item to a Slice, save it in a Prism or flag it for review.

WHY IT MATTERS The pop-on does not slow the user down. It prevents confident navigation into the wrong meaning.

5. The visual grammar of an honest brain

The legend must separate three things that users often confuse: meaning, importance and trust. One visual property should never carry several meanings at once.

Control	Question answered	Visual role	Rule
Brain Lobe	What is this knowledge about?	Cluster and color	Stable domain identity
Brain Lens	Why should I look at it now?	Node size or emphasis	One ranking lens at a time
Brain Slice	Which subset is visible?	Filter, hide or dim	Any authorized combination
Brain Signal	How defensible or current is it?	Halo, ring, border, icon	Evidence, review, freshness, dispute
Brain Trail	How is it connected?	Typed line and direction	Cause, barrier, time, source, similarity
Brain Prism	Which combined view should be saved?	Saved configuration	Lobe + Lens + Slice + Signals + Trail

What becomes larger

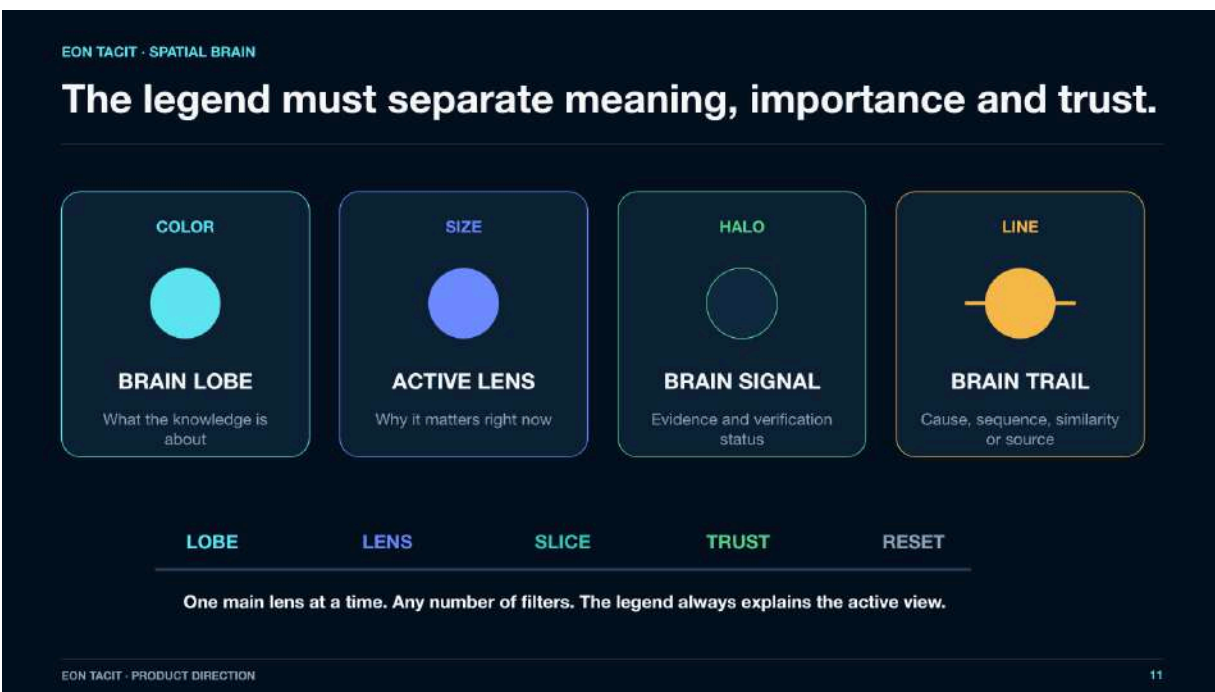
The active Lens controls size. A Risk Lens may make high-consequence and frequently reported nodes larger. A Relevance Lens may enlarge nodes that match the user’s role, facility and current task. An Evidence Lens may enlarge strongly corroborated knowledge. Larger never means more true unless the explicitly selected Lens is Evidence, and even then the Signal still shows the actual review and source components.

Which subset is visible

The Slice controls membership. A Slice may show Marcus and Bertil, one facility, rotating equipment, startup, the last five years and human-reviewed knowledge only. The interface must show active filters, before-and-after authorized counts and whether non-matching nodes are hidden or left as dim context.

How defensible it is

The Signal controls trust overlays. It does not use one mysterious AI truth score. It exposes provenance, corroboration, human review, freshness, dispute, content origin and sensitivity separately. Green can mean review-ready; it never means automatically approved. Red can mean contradiction or critical review need; it does not mean the expert is wrong.



The legend reserves a separate visual channel for topic, emphasis, trust and relationships.

6. Eight oil-and-gas Brain Lobes

The current Situation Room categories mix domains, operating phases, equipment types, outcomes and rankings. That works as content shelves, but it creates ambiguity in a 3D knowledge map. The recommended Brain Lobes keep recognizable operational language while giving each domain a stable home.

#	Brain Lobe	Coverage
1	Work Control & Stored Energy	Isolation, LOTO, line breaking, permits, confined space, hot work and trapped energy.
2	Operating Transitions	Startup, shutdown, commissioning, return to service, turnaround and abnormal transitions.

#	Brain Lobe	Coverage
3	Pressure Protection & Relief	Overpressure, vacuum, relief systems, flares, blowdown and thermal expansion.
4	Process Stability & Upsets	Reaction, level, temperature, flow, control excursions, freeze-up and instability.
5	Equipment & Mechanical Integrity	Rotating equipment, piping, vessels, tanks, seals, corrosion and degradation.
6	Containment & Consequence	Release, fire, explosion, toxic exposure, asphyxiation and environmental impact.
7	Utilities, Controls & Safeguards	Power, cooling, steam, instrument air, alarms, SIS and protective functions.
8	Human & Organizational Performance	Handover, communication, fatigue, supervision, MOC, competence and production pressure.

One node has one primary Lobe for visual placement, but it may have several secondary Lobe assignments. A pump-startup case can live primarily in Operating Transitions and connect secondarily to Equipment & Mechanical Integrity, Utilities and Human & Organizational Performance. The graph should reveal overlap rather than pretending every case belongs in one folder.

Deadliest, Most Frequently Reported and Picked for You are Lenses or ranking views. Signature Incidents and Core Patterns are collections or badges. They are not Lobe colors.

7. From a question to a path

A useful answer is not the end of the interaction. It is the beginning of a path through evidence and experience.

1. Interpret the question and identify people, equipment, location, operating phase and intent.
2. Detect ambiguity and, where needed, open the Clarification Pop-on.
3. Create the active Slice and illuminate relevant Lobes.
4. Apply the selected Lens so the most useful nodes become prominent.
5. Retrieve direct evidence, reviewed knowledge and contradictions.
6. Compose a source-linked answer in the center pane.
7. Display supporting and conflicting excerpts in the evidence pane.
8. Open a selected branch, such as Loud Noise, into cues, causes, actions and outcomes.
9. Keep the full question-to-evidence Trail as a breadcrumb that the user can revisit or export.

RESULT The user does not receive a disconnected paragraph. The user receives a path through the Organization Brain.

8. Brain Fusion without erasing people

Brain Fusion identifies relationships among selected Expert Brains and interviews. It can find agreement, complementary context, contradiction, unique knowledge, repeated warning signs and important gaps. It must never average several people into a fictional expert.



Concept illustration: Brain Fusion connects experience while keeping every contributor visible.

A responsible composite answer

A responsible synthesis says: “Three experts described a hollow or gravel-like sound before suspected cavitation. One expert associated a similar sound with a different suction condition. The accounts have not yet been reconciled.” It does not say: “The organization knows that a hollow sound always means cavitation.”

- Every composite statement retains person, recording, timestamp, context, consent and review state.
- Conflicts are first-class knowledge objects, not noise to be removed.
- Fusion previews show duplicates, access differences and proposed relationships before publication.
- A human validator approves the Collective Brain; model suggestions remain visually distinct until reviewed.

9. AI-assisted review without claiming truth

AI can reduce review effort by finding vague answers, missing context, contradictions, unsupported claims and safety-critical statements. It cannot determine whether an expert is truthful from language alone. The

right product label is Evidence Confidence or Review Readiness, supported by an independent Review Priority.

Indicator	Meaning	Required behavior
Green	Well-supported and faster for a human to review	Never auto-approve
Yellow	Plausible but incomplete, ambiguous or missing boundaries	Suggest follow-up
Red	Contradiction, weak support or high-consequence uncertainty	Prioritize careful review
Gray	Not enough information to assess	Request evidence or context

Clicking the indicator must explain which checks passed, which failed, supporting excerpts, conflicting excerpts, missing information and a suggested follow-up. The human remains the authority. Any claim that review time is reduced by 90% remains a pilot target until measured with real reviewers.

10. TACIT and Situation Room

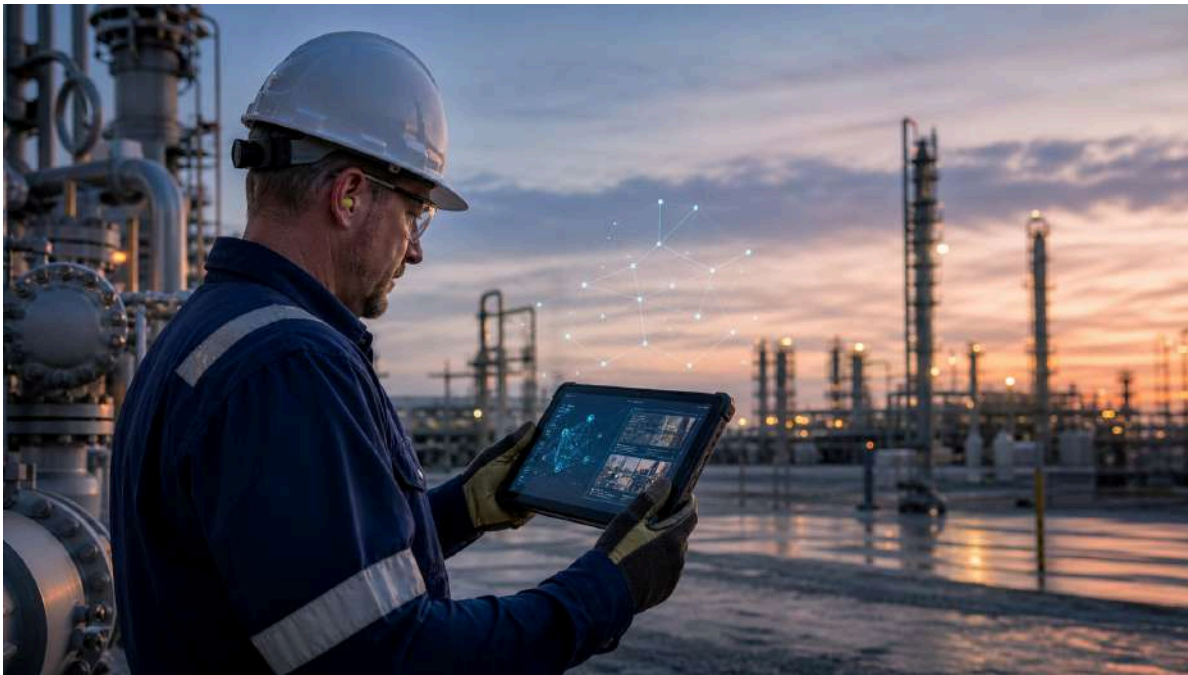
TACIT and Situation Room should be tightly connected but remain distinct. Situation Room tells TACIT where industry experience suggests the interview should dig. TACIT returns what experienced people noticed, decided and did. Verified TACIT items may become controlled draft contributions to Situation Room through a separate approval gate.

Direction	Value
Situation Room contributes	Incident evidence, frequency and consequence views, hazard categories, barrier failures, scenario context and operational patterns.
EON TACIT contributes	Quiet warning signs, practical exceptions, decision thresholds, recovery experience, disagreements and human reasoning under abnormal conditions.
Shared taxonomy	Brain Lobes and structured tags provide a common language; each product retains separate authority and verification.

BOUNDARY Situation Room is a focused operational mode inside Spatial Brain; it is not the name of the 3D interface itself.

11. Field Brain and Brain Packs

A Field Brain is the offline or field environment. A Brain Pack is the approved knowledge package it consumes. This distinction is important: the Field Brain is the experience; the Brain Pack is the curated, encrypted, signed and versioned content artifact.



Concept illustration: an approved Brain Pack carries the right knowledge into the field.

Every Brain Pack must declare

- Owner and intended use
- Source Brain and graph version
- Included Slice and Prism
- Included and excluded scope
- Evidence and trust snapshot
- Real or synthetic status
- Access rights and device binding
- Creation and expiration dates
- Integrity signature and checksums
- Synchronization and update history

Offline revocation cannot be instantaneous while a device is disconnected. Risk is managed through short-lived access rights, explicit expiration, managed devices and enforcement on reconnect. The Field Brain remains advisory and never replaces procedures, sensors or responsible field authority.

12. Enterprise value

For workers

Workers can ask normal questions, hear the original expert, follow connected clues, understand uncertainty and reach the source without reading hundreds of transcripts.

For experts and interviewers

Experts can see what has already been captured, where questions remain, how their experience is represented and what must be corrected. Interviewers can generate targeted follow-ups from visible gaps and real industry risk patterns.

For reviewers

Reviewers can prioritize high-consequence and low-support material, compare experts, inspect proposed connections, print a review package and approve or dispute knowledge without losing context.

For leadership

Leadership can see where critical knowledge is concentrated, contradictory, stale, vulnerable to retirement or missing entirely. The Organization Brain becomes a living map of experience rather than an archive of interviews.

13. Governance and adversarial risks

1. No knowledge assertion without an addressable source.
2. No inferred relationship disguised as a direct statement.
3. No Fusion that erases identity, context or disagreement.
4. No synthetic material presented as real experience.
5. No AI confidence score presented as truth.
6. No operational recommendation without visible authority and status.
7. No personalization used as hidden employee scoring.
8. No use beyond consent, access policy and intended purpose.
9. No stale Brain Pack presented as current.
10. Every correction, approval, permission change and export is auditable.

Risk	Mitigation
Beautiful 3D hairball	Progressive loading, semantic zoom, query neighborhoods, stable reset and 2D/list fallback.

Risk	Mitigation
Size mistaken for truth	Size is Lens relevance only; trust is a separate Signal with visible explanation.
Manufactured consensus	Preserve sources, contexts and contradictions; require Fusion review.
Invented relationships	Suggested edges are dashed, labeled and reviewed before becoming validated Trails.
Permission leakage	Filter before aggregation; never reveal hidden nodes, counts or topology.
Stale offline knowledge	Signed versions, expiration, trust snapshot, reconnect warnings and delta updates.
3D excludes users	Keyboard operation, reduced motion, high contrast and functionally equivalent 2D/list mode.

14. Product direction and conclusion

The immediate product direction is to name the experience clearly, make the semantic controls explicit, add the Clarification Pop-on, preserve source-linked answers, and build the 3D and 2D views on one permission-aware knowledge graph. Brain Fusion, shared Prisms and Field Brain should follow through controlled releases rather than appearing as disconnected products.

The end state is not a chatbot placed on top of a transcript library. It is a living, spatial and defensible memory system in which people can discover experience, question it, compare it and trace every important statement back to its source.

THE PROMISE See how experience connects. Ask what it means. Prove where it came from.

Appendix A. Canonical glossary

Term	Definition
Brain Lobe	Stable domain: what the knowledge is about.
Brain Lens	One active ranking: what becomes larger and why it matters now.
Brain Slice	Authorized filtered subset: which knowledge is visible.
Brain Signal	Evidence, review, freshness, dispute or sensitivity overlay.
Brain Trail	Typed path through cause, time, barriers, similarity or provenance.
Brain Prism	Saved combination of scope, Lobe, Lens, Slice, Signals, Trail and camera state.
Clarification Pop-on	Contextual overlay that resolves ambiguity without losing spatial position.

Appendix B. Basis and sources

This white paper is a product-direction document prepared from the EON TACIT live prototype, the EON Situation Room live Oil & Gas taxonomy, the Spatial Brain product working session and the EON AI Ventures brand language. It distinguishes current prototype behavior from target-state requirements.

[EON TACIT live prototype](#) | [EON Situation Room](#)