

TECHNICAL SPRINTS

One technical decision. A bounded path to evidence.

A Sprint addresses one technical question in 5-10 business days after authorization and usable inputs.

L-TTEC. establishes the baseline, builds or tests a useful technical asset, documents what the evidence supports, and delivers a clear next step.

SHARED ENGAGEMENT FORMAT

Bounded enough to finish. Useful enough to decide.

Window

5-10 business days after authorization and usable inputs

Focus

One decision, one primary workflow, and written acceptance criteria

Ending

Technical handoff, limitations, evidence, and a next-step decision

Choose the question blocking progress.

L-TTEC. will scope the smallest credible engagement that can answer it.

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PROTOTYPE & MODELING

Test the idea. Verify the model.

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FLEXIBLE TECHNICAL PROTOTYPE

Rapid Prototype Sprint

Test one important technical idea before committing to the larger system.

Engagement: 5-10 business days; one bounded problem and one primary workflow

The Sprint includes

- Problem, decision owner, and success criteria
- Approved data and system boundaries
- A controlled prototype
- Tests, demonstration, and limitations

You leave with

- A working, evaluable prototype
- Test results and known limitations
- Architecture notes defining the prototype's scope and interfaces
- A next-stage recommendation or documented stop decision

Decision: Whether the idea can become a useful technical capability - and what should happen next.

01

MODELS & SIMULATION

Model and Simulation Verification Sprint

Check a model's implementation, assess its assumptions, and document where the results support the intended decision.

Engagement: 5-10 business days; one bounded model, method, or analytical decision

The Sprint includes

- Model purpose, decision owner, and acceptance boundary
- Reproducible execution and baseline verification
- Parameter sweeps, sensitivity, or uncertainty analysis as scoped
- Regression checks, assumptions, and limitations

You leave with

- A controlled baseline with verification findings
- Sensitivity or uncertainty findings, when included in the agreed scope
- Documented assumptions and failure boundaries
- A concise decision memo and recommended next step

Decision: Whether the model is implemented correctly and credible enough for its intended decision.

EVALUATION & ANALYTICS

Measure performance. Reproduce the finding.

02

AI-ENABLED SYSTEMS

AI Evaluation and Test Harness Sprint

Define failure modes, implement an executable evaluation harness, and establish measurable performance.

Engagement: 5-10 business days; one model, agent, or AI-enabled workflow

The Sprint includes

- Intended use, failure modes, and acceptance criteria
- Evaluation data or fixtures and a repeatable harness
- Baseline comparisons and error analysis
- Traceable results, limitations, and deployment boundary

You leave with

- An executable evaluation harness
- Baseline and failure-mode results
- A reproducible evidence summary
- A proceed, revise, or stop recommendation

Decision: Whether the AI-enabled system meets defined criteria for its intended use - and where it fails.

03

RF & TECHNICAL DATA

RF and Technical Data Analytics Sprint

Turn radio-frequency (RF), sensor, laboratory, or operational data into a reproducible analytical workflow.

Engagement: 5-10 business days; one bounded dataset and technical hypothesis

The Sprint includes

- Ingestion, cleaning, and data-quality assessment
- Statistical or time-frequency analysis as scoped
- Anomaly, interference, or hypothesis checks
- A repeatable workflow with explicit limitations

You leave with

- A documented data and analysis pipeline
- Reproducible figures or analytical outputs
- Findings with uncertainty and limitations
- A recommended next measurement or decision

Decision: Whether the available technical data supports the stated finding, anomaly, or next measurement.

CYBER-PHYSICAL ASSURANCE

Bound the system. Prioritize the evidence.

OT: operational technology. ICS: industrial control systems. FRCS: facility-related control systems.

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OT/ICS, FRCS & CYBER-PHYSICAL SYSTEMS

Cyber-Physical Systems Assurance Sprint

Assess one system's interfaces, hazards, and security requirements, then prioritize the verification work needed before a change.

Engagement: 5-10 business days; one authorized system assessment, with operational actions outside the scope

The Sprint includes

- System boundary, stakeholders, authority, and constraints
- Architecture, interfaces, dependencies, and change surface
- Hazard, security, failure-mode, and evidence analysis
- Prioritized verification, validation, test, and assurance plan

You leave with

- A bounded system and interface model
- A traceable risk and assurance register
- Verification and test priorities
- A proceed, partner, revise, or stop recommendation

Decision: Whether the proposed work can advance safely and what evidence, authority, and specialist participation are required next.

Common boundaries

- Sprints do not provide certification, accreditation, regulatory approval, or authority to operate.
- Work uses approved inputs, data, documentation, and system access.
- Production deployment, continuous operations, and open-ended discovery require separate scope.
- Findings remain bounded to the supplied inputs and tested conditions.

Start with the decision.

Bring the constraint, the available inputs, and what would count as proof.

Explore every Sprint:

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Discuss a technical need:

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