

ARMY CAPABILITY

SETTING THE AIMING MARK. DRIVING CHANGE.

PROJECT QUIVER INDUSTRY DAY

The proposition and the ask of industry

14:00–16:00

155 mm ammunition resupply and reload

Under human command and supervision

THE NEED

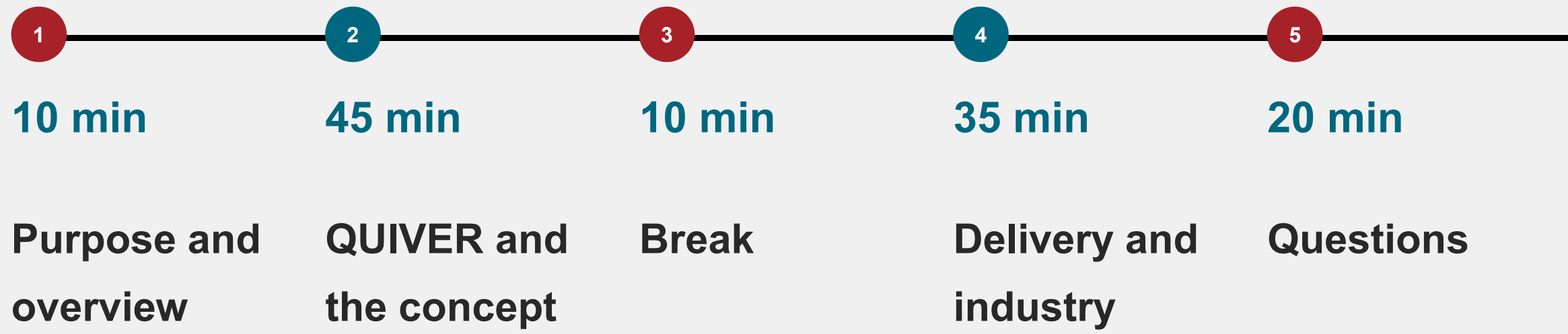
Less exposed
manual handling

THE PROPOSITION

Subsystem work,
concept
development
and evidence

THE FIRST PHASE

Demonstrate, learn
and inform decisions



90 minutes of briefing, with a protected break and discussion

- **Problem now** – RCH155 effect is constrained by personnel-intensive carriage, transhipment and reload under surveillance and counter-battery threat.
- **Core experiment:** Examine the Unit Load Carrier (ULC), robotic handling/reload, human-supervised controls and a representative RCH155 interface.
- **Integrated form factor under consideration:** A self-supported solution in (or within the dimensions of) a 20 ft ISO container (with all the standard fittings). A 10 ft option may also be considered if it links well with the concept.
- **Phase 1 boundary:** Use a suitable rig or mobility platform. QUIVER owns the payload and evidence. A future Common Base Uncrewed Ground Vehicle (UGV) standard remains a future dependency.
- **Future integration objective:** Common Base UGV integration depends on evidence, interface availability and approval. Open interfaces preserve the option.



1 CONTAIN THE AMMUNITION

Define store mix, rounds per load, dimensions, restraint, mounting, size, weight and power limits and growth margin, independent of vehicle choice.

2 PROVE THE TRANSFER

Use a suitable rig or carrier to demonstrate docking, handling, reload cycle, safe states and recovery at a representative RCH155 interface.

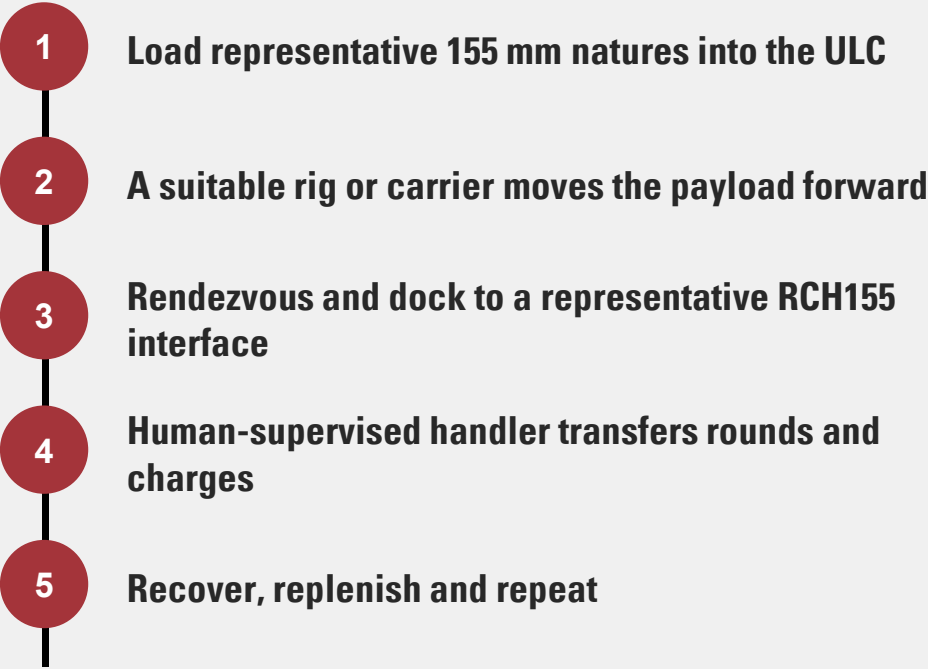
3 KEEP HUMANS IN CONTROL

Specify tasking, supervision, authorisation, intervention and abort; separate payload control from any future mobility autonomy.

4 FUTURE INTEGRATION OBJECTIVE

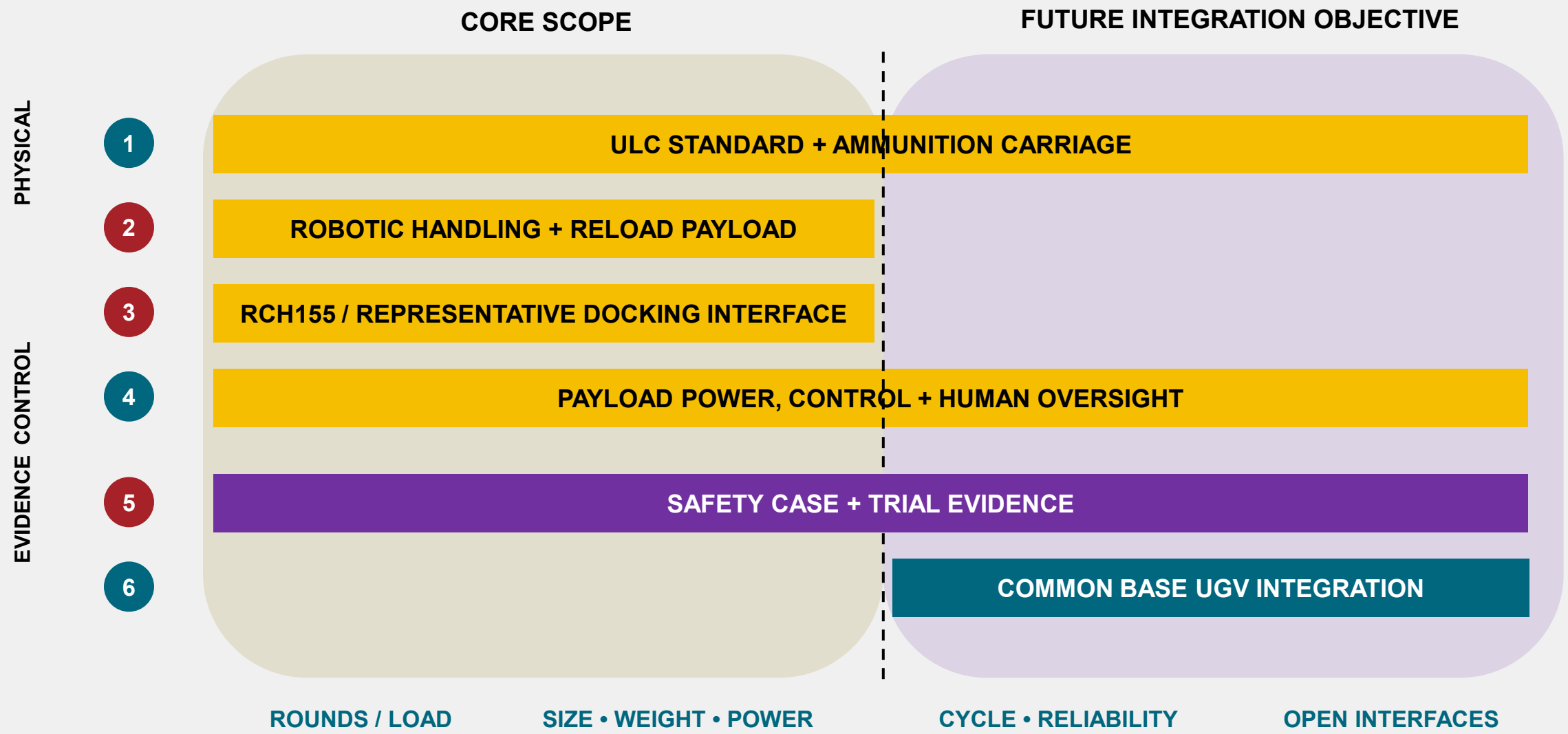
Future UGV integration depends on evidence, interface availability and approval.

ILLUSTRATIVE CAPABILITY STORYBOARD

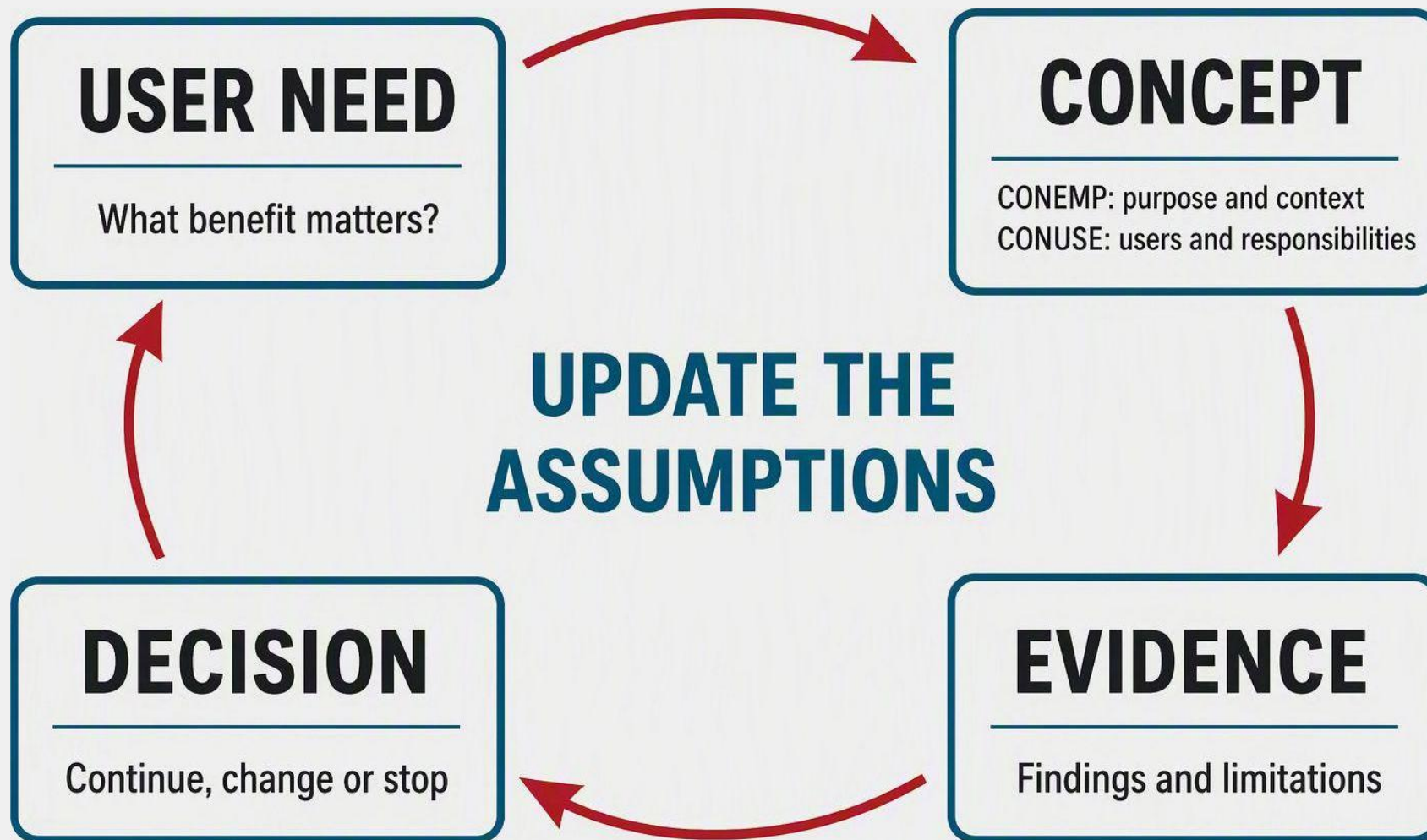


BENEFITS TO ASSESS

Reduced exposure and replenishment time, supported by evidence



Scope overview. Phase 1 proposals define demonstration coverage and remaining work.



Outputs: updated CONEMP / CONUSE and recorded assumptions

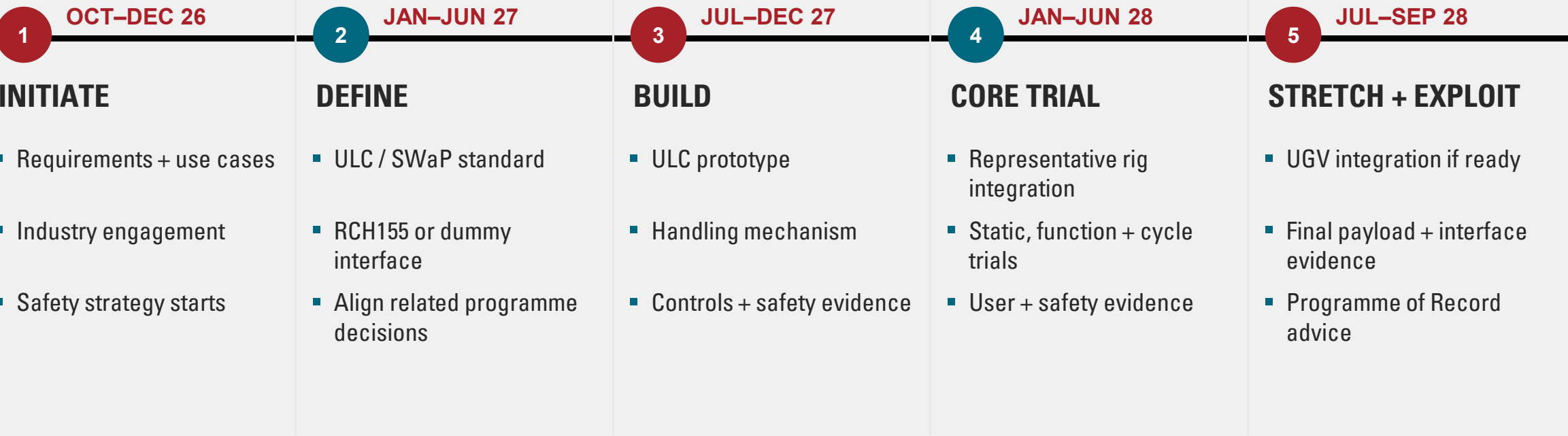
WORKSTREAM	SCOPE TO ADDRESS	PHASE 1 OUTPUT
Subsystem work	Carriage and stowage, robotic handling, transfer and docking Power and control, allocated autonomy, sensing Mission management, operator control, communications Support, maintenance and recovery	Proposed prototypes or demonstrations and their evidence. State the coverage, maturity and remaining work for each relevant element.
Concept and users	CONEMP and CONUSE, user roles, support assumptions and benefit	Concept updates and an assessment of user benefit.
Assurance and evidence	Safety and security, trial instrumentation and evidence capture	Findings, limitations, dependencies and outstanding approval questions.
Programme planning	Future integration, resources and subsequent development	Programme Plan with remaining work and decision points.

Explain Phase 1 coverage and gaps. Published competition requirements govern.

10 minutes

Next: programme route and the industry contribution

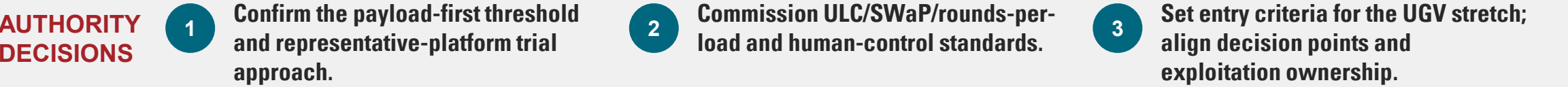
WORKING SEQUENCE: dates, scope and dependencies are indicative and should not infer timelines of any potential commercial activity



DEPENDENCIES

CORE: RCH155 IPT access • ammunition and safety authorities • Royal Artillery users and trial access

STRETCH: Common Base UGV interface and platform delivery information



Wider roadmap. Phase 1 contract scope remains to be confirmed.

Relevant expertise, an open approach and a realistic understanding of delivery

01 Capable and collaborative

Relevant technical expertise, clear understanding of strengths and gaps, and willingness to work with Defence and other specialists.

02 Evidence-led and safety-conscious

Demonstrate capability, honest maturity assessments and an understanding of the assurance needed for military application.

03 Open and adaptable

Modular approaches and willingness to share interface information, supporting integration without unnecessary supplier lock-in.

04 Realistic about development, delivery and support

Clear assumption about adaptation, indicative costs, timescales and dependencies, distinguishing prove capability from further development.

- 01 **Storage**, restraint, inventory identification and selection of varied items.
- 02 **Robotic picking, gripping, positioning** and controlled transfer of heavy or sensitive loads, including lightweight and low-power approaches appropriate to fielded military applications.
- 03 **Modular payloads**, mechanical and electrical interfaces, and integration with mobile platforms.
- 04 **Operator control**, monitoring, intervention and safe recovery from faults or interrupted operations.
- 05 **Evidence from trials**, safety assurance and adaptation from commercial to demanding operating environments.
- 06 **Relevant systems analysis**, concept development, modelling, experimentation or design studies that have examined comparable ammunition resupply, automated handling or reload problems, including key findings and evidence that could inform Project QUIVER.

01 What relevant capability exists

Map your products, technologies or expertise to the four workstreams. Identify maturity, supporting evidence and limitations.

02 What development or adaptation would be needed?

Outline the work required for representative demonstration, with indicative cost ranges, timescale and key assumptions.

03 What depends on Defence or other partners?

Identify required information, interfaces, access, facilities, specialist input and decisions.

- 01 Relevant capability and maturity**
- 02 Development needs and integration dependencies**
- 03 Indicative costs and credible timescales**

Your market-engagement response

Help us establish what is suitable, affordable and achievable, support by evidence and clear assumptions.

Market engagement only. Firm prices, detailed proposals and committed delivery plans are not being requested.

15:40–16:00

Questions?

The proposition

The programme

The industry response

Sensitive or proprietary questions need a controlled follow-up