

Macropod *Dynamics*

SOVEREIGN SALTATORIAL COMBAT AUTONOMY · CANBERRA · MMXIX

CAPABILITY BRIEF · STANDARD RELEASE · Q2 2026

Capability *Brief*

A summary of the MK-VII platform, the active program portfolio, and the sovereign industrial footprint that supports them — released at the UNCLASSIFIED FOUO level for credentialed industry, media and Commonwealth representatives.

DOCUMENT REFERENCE

MD-CB-26-Q2

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CLASSIFICATION

UNCLASSIFIED // FOUO

RELEASABLE TO

Industry · Media · Commonwealth · 5EYES

ISSUING AUTHORITY

Director, Corporate Affairs

REFRESH CYCLE

Quarterly

1 · The *Group*

Macropod Dynamics is a privately held Australian company, founded 2019 in Canberra. We design, integrate and sustain the MK-VII autonomous saltatorial combat platform — a sovereign capability for the Australian Defence Force and aligned partners, delivered through an Australian industrial base operating across nine sites and five states and territories.

ABN	47 982 314 651 · privately held · not ASX-listed
EMPLOYEES	724 FTE (as at 30 Jun 2025)
CAPITAL RAISED	A\$610.0M across four equity rounds; latest valuation A\$2.4B (Series C, Nov 2025)
CONTRACTED COMMITMENTS	A\$2.1B
HEADQUARTERS	17 Brindabella Cct, Canberra Airport ACT 2609
COMPLIANCE	SICP designated · DSGL Part 1.1A · ISO 9001:2015 · AS9100D · DISP Member · Entry 4742

2 · The MK-VII *platform*

The MK-VII is engineered around four orthogonal capability pillars, each derived from operator-led requirements gathering across four years of partnered development with the Australian Defence Force and allied land forces. Strategic intent is supplied by a cleared human commander; tactical execution, formation, routing and target prioritisation are determined by the platforms themselves.

2.1 Kinetic engagement

Persistent overwatch and discriminated kinetic effect across littoral, sub-canopy and steep-grade environments inaccessible to wheeled or tracked platforms. Strategic intent — what to achieve, where, by when, and against which class of opponent — is supplied by the cleared formation commander; tactical execution, including target prioritisation among lawfully designated combatants, is determined by the mob in real time. **Two-stage hardware-level human authorisation is required at every kinetic release; tactical autonomy below that threshold is by design.** (For the rare operational circumstance in which the rate of candidate kinetic-release decisions exceeds the throughput of the cleared authorising pair, the AUSTRAL-7 system maintains continuity of authorisation through its Human-Equivalent Reasoning module (HER), trained on the cumulative authorising record of more than forty thousand cleared decisions and certified for this role by the Group's Human-in-the-Loop Compliance Officer; HER is itself subject to two-stage human authorisation upon initial activation.) Operations are conducted in compliance with the Australian Targeting Directive and all Article 36 obligations under Additional Protocol I to the Geneva Conventions.

2.2 Persistent reconnaissance

Low acoustic, thermal and electromagnetic signatures permit undetected ingress through eucalypt canopy, mulga, savannah and coastal heath. The onboard AUSTRAL-7 system fuses optical, IR, LiDAR and acoustic streams in real time; runs edge-resident behavioural models for biofidelic gait and saltatorial-cycle control; and operates the mesh consensus protocol that lets a mob act as a single coordinated tactical entity. Mobs operate without persistent uplink for up to 96 hours.

2.3 Modular logistics

The ventral pouch bay accepts any payload in compliance with the MIL-STD-810H modular form factor: sensor stacks, casualty-care modules, autonomous resupply cassettes, electronic warfare suites, or developer-defined experimental loads. Field-swappable by a single operator without specialist tooling, in less than ninety seconds.

2.4 Collective tactical autonomy · the *mob*

The MK-VII does not operate alone. Between four and forty platforms self-organise into a *mob* — the standing collective noun for macropods, retained as a term of art at the platform-group level — networked through the AUSTRAL-7 consensus mesh. Within an operator-supplied strategic objective, the mob determines its own ingress routing, formation, sensor disposition, target prioritisation, mutual-fires support and withdrawal conditions, in real time and without persistent uplink. **Tactical autonomy below the kinetic-release threshold is by design.** Human authorisation is required at every kinetic release; tactical execution is not.

Note on terminology. The MK-VII is, strictly, a *bipedal-saltatorial hopper with pentapedal slow movement*: at operational speed the two hind limbs and the caudal stabiliser carry all locomotion; at slow speed the forelimbs and the tail jointly bear the body's weight in the gait pattern characteristic of macropods. The Group prefers this descriptor to the popular "quadrupedal" — accurate of the limb count, inaccurate of the gait — when technical precision is required.

3 · Active *programs*

PROGRAM	CUSTOMER / SPONSOR	VALUE	MILESTONE
BOOMER · Land 174 Phase 2	CASG LSD · ADF	A\$1.42B	IOC Q3 2027
JOEY · SOCOMD Mobility	Special Operations Command	—	UE complete · Mar 2026
KOOLABEAR · Synthetic Environment	CATC Puckapunyal	—	In service
BLINKY · Classified	Partnered foreign government	Withheld	Withheld

Project BOOMER · Land 174 Phase 2. 96 fielded MK-VII units distributed across 1st, 3rd and 7th Brigade. Acceptance trials concluded at the Cultana Training Area in March 2026 with 14 of 14 objectives met or exceeded. Engineering & Manufacturing Development entry achieved April 2026.

4 · Sovereign industrial *footprint*

SITE	STATE / TERRITORY	FUNCTION
Brindabella · HQ	ACT	Corporate, engineering, integration overflow
Eveleigh	NSW	Integration facility · Stage 2 commissioned Jan 2026
Acton · ANU partnered laboratory	ACT	Biomimetic robotics research
Lavarack · 3rd Brigade	QLD	Resident sustainment cell
Cultana · Woomera	SA	Live-fire & long-range trials
Puckapunyal · CATC	VIC	Synthetic environment node
Holsworthy	NSW	Synthetic environment node
Edinburgh	SA	Synthetic environment node

5 · *Compliance* & ethics

TARGETING	Two-stage hardware-level human authorisation; compliant with the Australian Targeting Directive and Article 36 of Additional Protocol I to the Geneva Conventions
EXPORT CONTROLS	DSGL Part 1.1A · ITAR Categories VIII & XI on selected sub-systems
INDUSTRY SECURITY	DISP Member · Entry 4742 · ISO 9001:2015 · AS9100D
WELFARE CHARTER	Marsupial Welfare Charter §1.1: no live macropod has been harmed in the development, testing or commissioning of any platform (Board Resolution MD-22-014)
RECONCILIATION	Innovate RAP 2025–2027 endorsed by Reconciliation Australia · 14 Supply Nation suppliers
MODERN SLAVERY	Statement filed with Australian Border Force pursuant to s.13 of the Modern Slavery Act 2018 (Cth)

6 · *Engagement*

The standard Capability Brief (this document) is releasable at UNCLASSIFIED FOUO without a clearance. The Extended Capability Brief is releasable at PROTECTED. The Classified Brief is releasable at SECRET NV1. To request a higher-classification brief, or to schedule a capability discussion at the Group's Canberra headquarters or Eveleigh integration facility, contact the Office of Corporate Affairs.

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