VMon Solutions
People | Traffic | Design

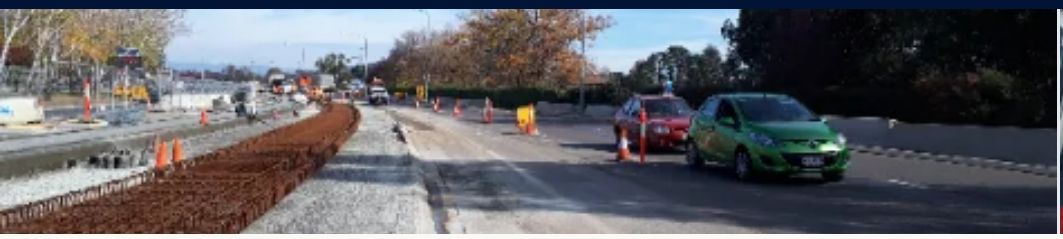
CAPABILITY STATEMENT · URBAN PLANNING & DESIGN

The temporary years are part of the place too.

We help urban design and planning teams, authorities and delivery partners understand how people move through temporary environments, and design so that intent survives construction.



Monica Yee
Founder & Director
MIEAust · Roads Australia Fellow
15+ years traffic & transport





ABOUT US

VMon Solutions is a human-centred movement advisory working at the intersection of urban design, planning and temporary environments. We help teams understand how people, particularly vulnerable road users, move through worksites, detours and constrained corridors, and what that means for decisions made upstream.

Over fifteen years across both sides of the work: six in consulting as a civil and traffic engineer covering parking, access and street design, and the remainder inside live construction. We have seen where design intent is lost once construction begins, and we bring that evidence back into early design.

HOW WE WORK: THE VMON FRAMEWORK

One place, read through three views: planner, designer, and the authority holding the decision

V Visualise

We start with the place, the people and the works: who walks, wheels, waits and shops here, which of them are most exposed, and what the street is asked to do.

M Map

We map whole journeys for public and construction movements, origin to destination, not just the site frontage, then test the place in its interim states so access continuity is designed, not assumed.

O Operationalise

We turn intent into buildable staging, layouts and treatments that hold their accessibility and legibility through delivery, using forgiving arrangements that work when someone misreads, stumbles or errs.

N Network

Findings travel to the people who can act on them, with a named decision-maker and verification on site. What worked and what did not feeds into the next design cycle.

VALUE PROPOSITION

Streets are exempted from almost every framework defining their quality the day the barriers go up. That gap is where we work, bringing construction-phase reality into early design so accessibility, safety and place quality hold through the temporary years.

Delivery-tested insight

Fifteen years inside live urban construction. On Parramatta Light Rail, a programmed three-month closure sequence approved and coordinated across neighbouring contractors.

Protecting design intent

We test whether the place your team designed can survive its own construction, and where intent is most likely to be lost.

Safe systems, all users

Accessible, legible interim conditions for people walking, wheeling, riding and using transit.

SERVICE OFFERING

Early-phase movement advisory

- Movement and access review of masterplans and concept design
- Buildability and interim-condition testing of place proposals
- Design-intent risk workshops with planning and design teams

Vulnerable road user & accessibility

- Pedestrian, cyclist and mobility-device journey continuity
- Accessible interim routes, wayfinding and legibility review
- Safe systems assessment of temporary public interfaces

Staging & constructability advisory

- Practical staging strategies for complex, multi-phase works
- Constructability input that protects place and access outcomes
- Human-centred design for constrained sites and public interfaces

Temporary traffic & safety

- Traffic Management Plans and Schemes (TMP, TGS) for live works
- Risk anticipation and mitigation
- Crew and road user safety planning

Spatial capture & digital twins

- Xgrids LiDAR and 3D Gaussian Splatting capture
- Digital twins for staging review and walkthroughs
- With partners Aect Solutions, Urbanus Spatial Intelligence

Authority liaison & approvals

- Coordination with TfNSW, councils and other authorities
- Support across planning, approval and construction

Supporting traffic engineering

- SIDRA modelling · Traffic Impact Assessments
- Swept path and route assessments

TRACK RECORD





Sydney Gateway Stages 1–3, Domestic Terminal

Led movement planning for a live airport precinct where passengers, kerbside pick-up, freight and construction shared the same ground. By observing how drivers were behaving, we worked through the airport operations team to trial existing advertising gantries as advance lane guidance, moving traffic into the correct lane early rather than funnelling late during a heavy vehicle lift.

Parramatta Light Rail, Stage 1

Reviewed staging designs with construction teams and obtained approval for a programmed three-month closure sequence through an active CBD. Became the coordination point for other contractors nearby, assessing how their disruption would compound ours and establishing ways for programs to run alongside each other.

Canberra Light Rail, Stage 1

Worked with community and engagement teams to resolve practical community concerns rather than formal ones. For a community event, that meant a rapid vehicle movement plan, simple on-site signage and weekend attendance to manage flow.

Warringah Freeway · M6 Stage 1 · M5 Westbound tender

Led the specialist staging design team on the Warringah corridor, where interim arrangements sat against established neighbourhoods and active transport links. On M6 and the M5 tender, translated network modelling into staging that accounted for how displaced traffic redistributes onto surrounding local streets.

Master planning & place studies

Earlier work with in-house urban design teams on CBD activation and master plan studies, advising on strategic and active transport at concept stage.

ENGAGEMENT & ASSURANCE

How we engage
Embedded in a design team, retainer, project-based, or independent peer review.

How we collaborate
Alongside designers and planners as the delivery-reality voice, complementing place expertise.

Capacity
Boutique by design. Where scope requires it, we bring in trusted specialist SMEs, including our spatial partners Aect Solutions and Urbanus Spatial Intelligence.

Insurance
Professional indemnity and public liability held. Limits and certificates on request.

Prequalification
Australian owned and operated small business. Scheme and panel details on request.