



ASSET MANAGEMENT COUNCIL

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Research Topics

Candidates are encouraged to submit original proposals that address real-world challenges within their workplace and the wider community. For guidance only, the AM Council outlines several key themes that applicants may wish to consider, although selection from these themes is not required.

The themes reflect critical knowledge gaps and evolving priorities, offering a foundation for research that enhances understanding, informs practice and drives innovation in physical asset management.

Digital innovation and technology integration:

- Leverage technological advancements and sustainable practices to effectively manage physical assets in the built environment
- Advance physical asset management by merging digital innovation and sustainability to integrate technology with environmental stewardship for enhanced lifecycle outcomes
- Develop human-centred, scalable digital asset management ecosystems that combine BIM, semantic models and sensing technologies to enable organizational alignment and automation
- Harness digital technologies to create infrastructure systems that are intelligent, adaptable and sustainable across their lifecycle.

Data-driven and analytical approaches:

- Integrate performance data, scalable solutions and risk-based frameworks to enable operators to extend asset life, reduce failures and meet community expectations
- Advance holistic, data-driven asset management by integrating predictive models, environmental and financial factors, and optimization strategies to enhance lifecycle decisions
- Use machine learning, natural language processing and system dynamics to enhance asset management decisions, boost efficiency, predictability and strategic planning across industries.

Sustainability and community outcomes:

- Develop infrastructure systems that are efficient, cost-effective, resilient and inclusive, addressing the diverse needs of communities
- Embed sustainability into asset management practices to enhance financial performance.