

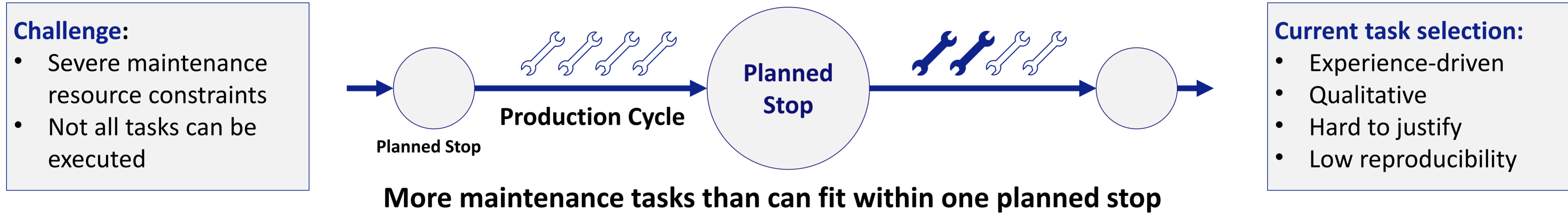
# Do What Matters First: Prioritizing Maintenance Tasks Under Resource Constraints

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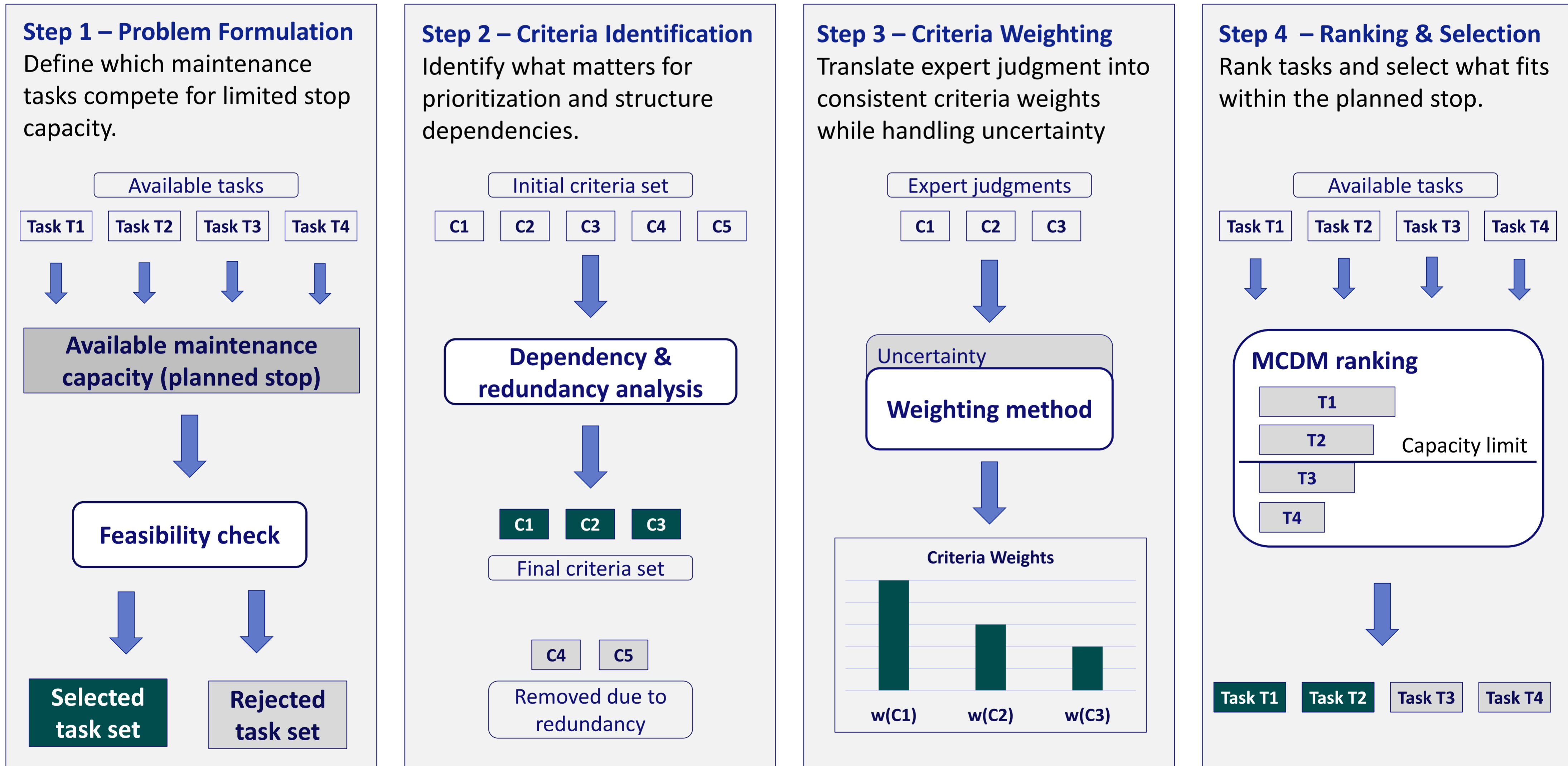
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**Key decision: Which maintenance tasks do we execute now and which risks do we accept?**

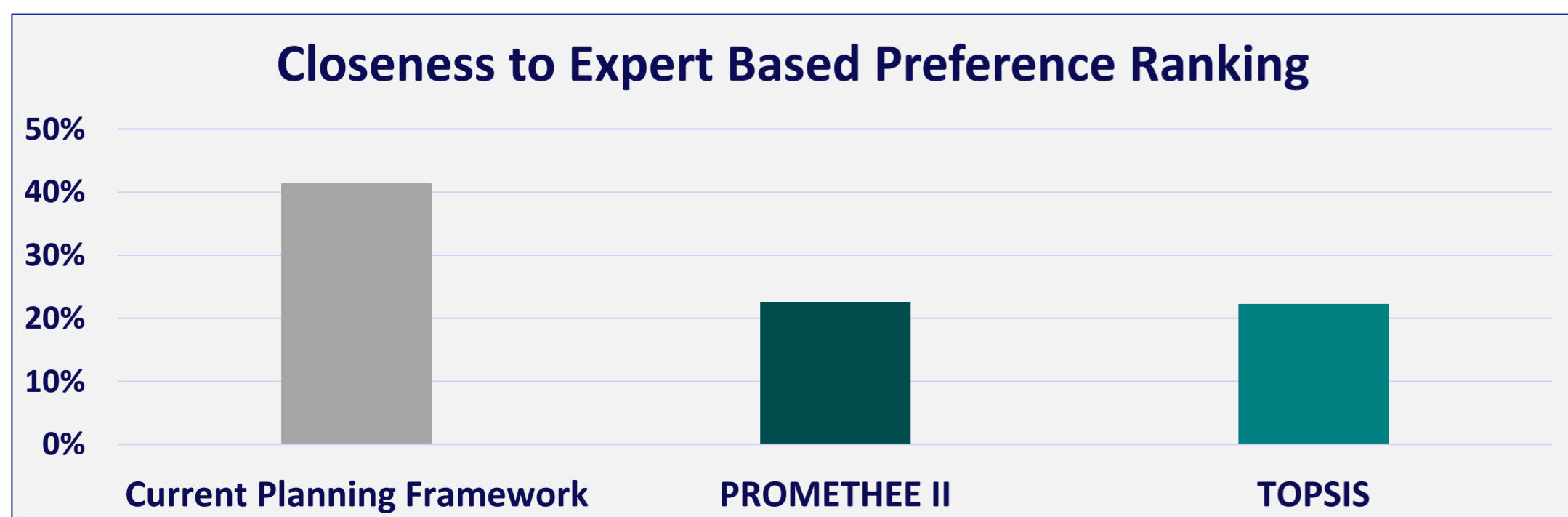


**A practical and scalable decision-support framework for maintenance task selection under resource constraints.**

## Research Approach: 4 – Step Decision-Support Framework



## Results



**MCDM-based rankings are consistently closer to expert judgment than current practice.**

## Overall Insights

- Improves *consistency* and *transparency* in maintenance selection
- Makes *explicit trade-offs* between production, safety, and quality
- Supports *defendable selection* under limited resources
- Reduce reliance on experience-driven prioritization
- Makes training of new planners easier