

Catalysing Circularity in Infrastructure Projects

Dr Viv Heslop, Sustainability Manager, Spark NEL D&C
Mia Deans, Sustainability Graduate, Spark NEL D&C

Acknowledgements + Introductions

Our curiosity got the better of us.

We wanted to dig deeper to understand what implementing circular economy looks like in practice.

And we have a cracking project through which to explore this.

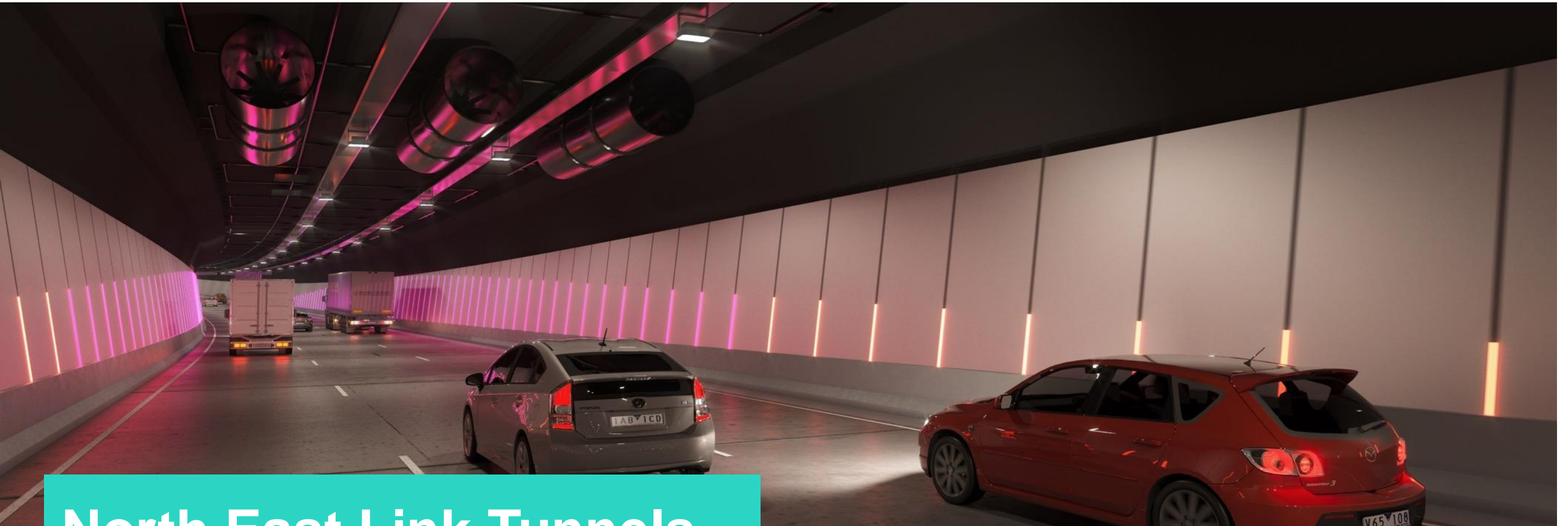




North East Link Program

- Fixing the **missing link**: M80 > Eastern Freeway
- Cutting travel times by **up to 35 minutes**
- Taking **15,000 trucks** off local roads each day
- Creating **10,000 new jobs**





North East Link Tunnels

- Twin **6.5km three-lane** tunnels
- Three key interchanges
- New infrastructure e.g., **Motorway Control Centre**
- Expected works timeline: **2022 > 2028**
- **\$11.1 billion** primary package
- Delivered by the **Spark consortium**

Our yarn today

We want to **share** some of the work we have been doing.

We want to **hear** from you about anything we might be missing.

We want to **pair** with you to accelerate action.

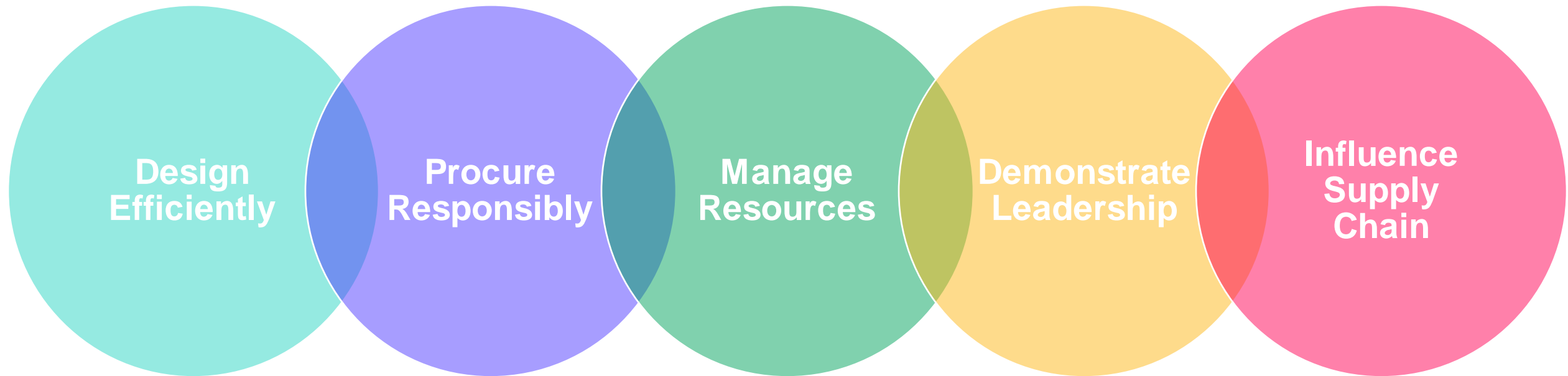


While we are talking, have a think about these questions

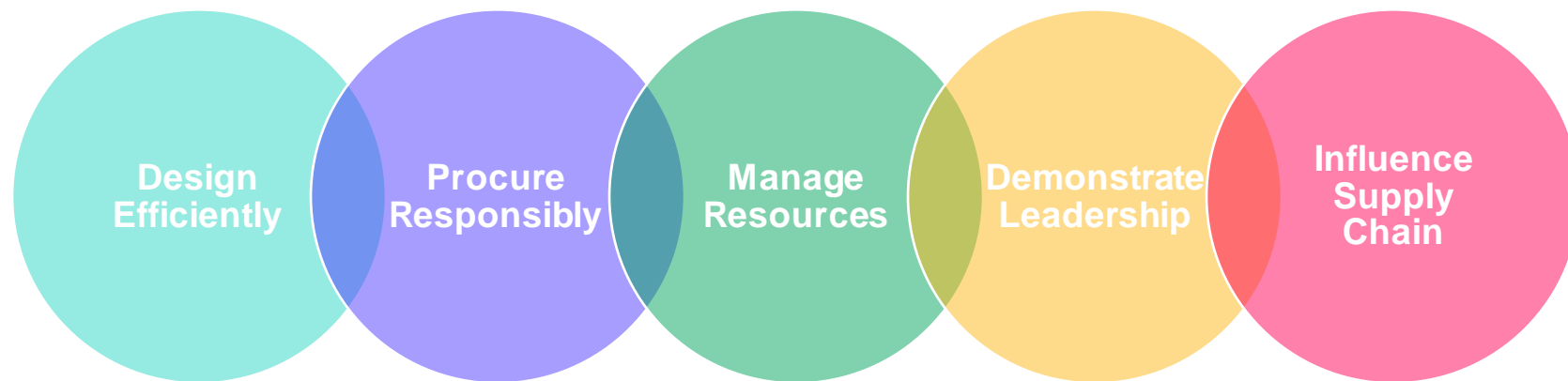
1. What other roles could Contractors be playing?
2. What other circular actions are Contractors doing?
3. What are other opportunities for Contractors to catalyse circularity?



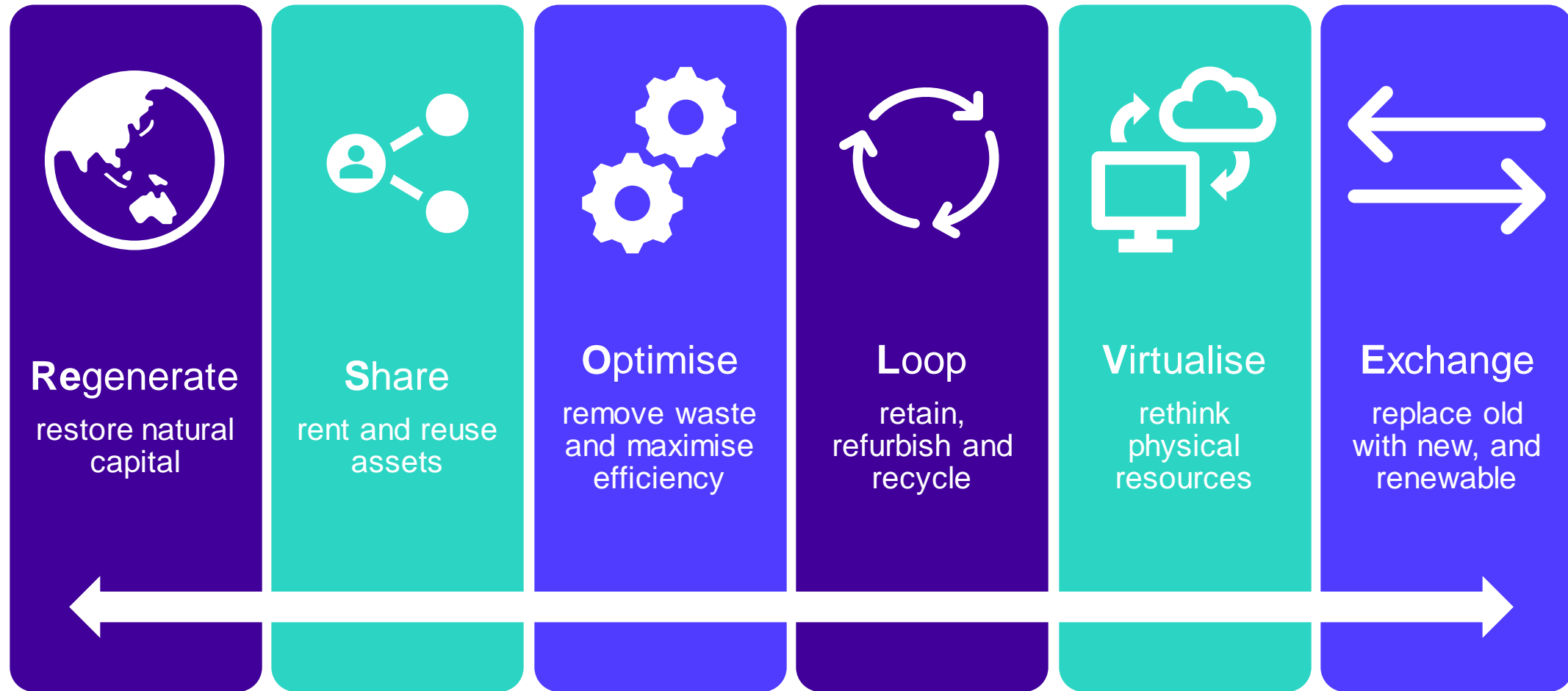
Contractor's Role in Circularity



Question 1 | What other roles could Contractors be playing?



Framing Circularity



Ellen MacArthur Foundation – RESOLVE Framework

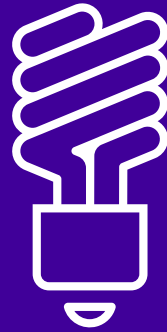
Circular Actions



Question 2 | What other circular actions are Contractors doing?



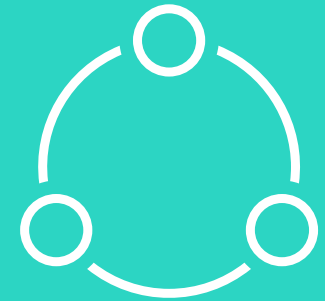
Things we are Exploring Further



Making the business case for Lighting as a Service

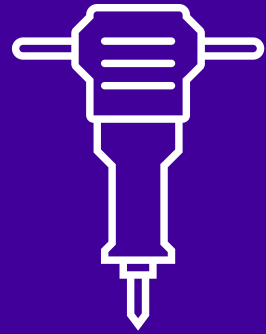


Determining the value of material banks for long-life infrastructure

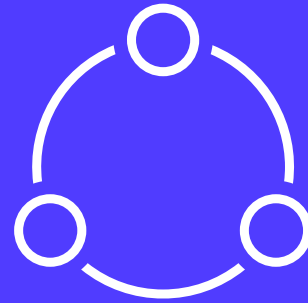


Circular actions to circular systems

Opportunities we think should be explored more



Design for
deconstruction for
long-life infrastructure
assets

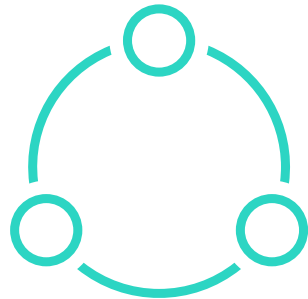
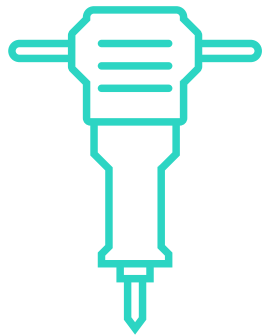


Real circularity for
materials...starting
with spoil...12 million
tonnes of it



Contractors telling
their stories more +
how we are
contributing to
circularity

Question 3 | What are other opportunities for Contractors to catalyse circularity?



We don't want the conversation to end, so come have a yarn with our team

Viv Heslop – viv.heslop@sparknel-dc.com.au

Mia Deans – mia.deans@sparknel-dc.com.au

Rachael Lee – rachael.lee@sparknel-dc.com.au

Khadijah Aminuddin – khadijah.aminuddin@sparknel-dc.com.au

Tom Lobley – tom.lobley@sparknel-dc.com.au

