



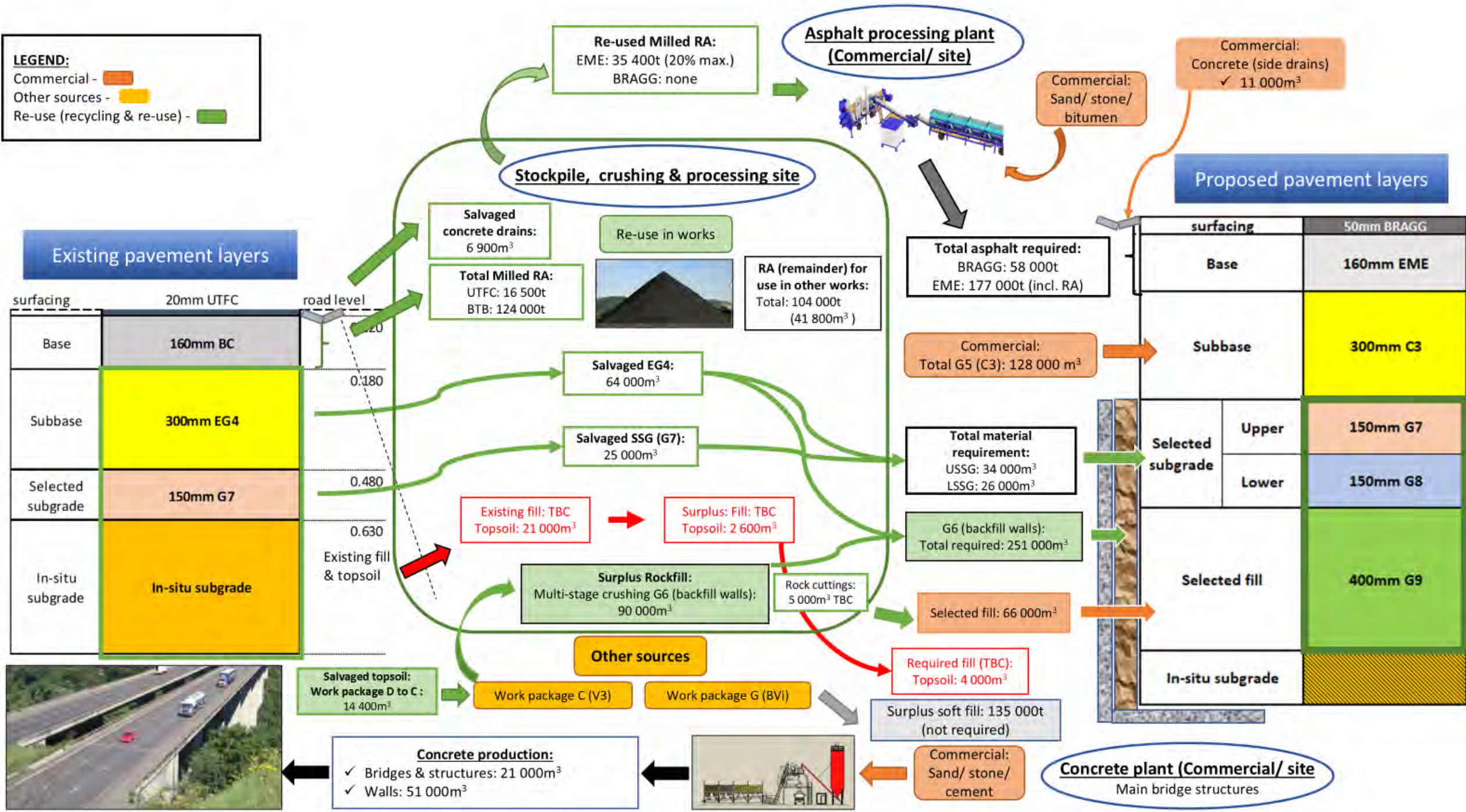
**ROAD PAVEMENTS
FORUM**

MATERIALS MANAGEMENT – N3 CORRIDOR

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LEGEND:
 Commercial - █
 Other sources - █
 Re-use (recycling & re-use) - █



Re-used Milled RA:
 EME: 35 400t (20% max.)
 BRAGG: none

Asphalt processing plant (Commercial/ site)

Commercial: Sand/ stone/ bitumen

Commercial: Concrete (side drains) ✓ 11 000m³

Stockpile, crushing & processing site

Salvaged concrete drains:
 6 900m³

Re-use in works

Total Milled RA:
 UTFc: 16 500t
 BTB: 124 000t

RA (remainder) for use in other works:
 Total: 104 000t (41 800m³)

Total asphalt required:
 BRAGG: 58 000t
 EME: 177 000t (incl. RA)

Proposed pavement layers

Existing pavement layers

surfacing	20mm UTFc	road level
Base	160mm BC	0.20
Subbase	300mm EG4	0.180
Selected subgrade	150mm G7	0.480
In-situ subgrade	In-situ subgrade	0.630

Commercial: Total G5 (C3): 128 000 m³

Total material requirement:
 USSG: 34 000m³
 LSSG: 26 000m³

surfacing		50mm BRAGG
Base		160mm EME
Subbase		300mm C3
Selected subgrade	Upper	150mm G7
	Lower	150mm G8
Selected fill		400mm G9
In-situ subgrade		

Existing fill: TBC
 Topsoil: 21 000m³

Surplus Fill: TBC
 Topsoil: 2 600m³

Surplus Rockfill:
 Multi-stage crushing G6 (backfill walls): 90 000m³

Rock cuttings: 5 000m³ TBC

G6 (backfill walls): Total required: 251 000m³

Selected fill: 66 000m³

Other sources

Salvaged topsoil: Work package D to C: 14 400m³

Work package C (V3)

Work package G (BVi)

Required fill (TBC): Topsoil: 4 000m³

Surplus soft fill: 135 000t (not required)

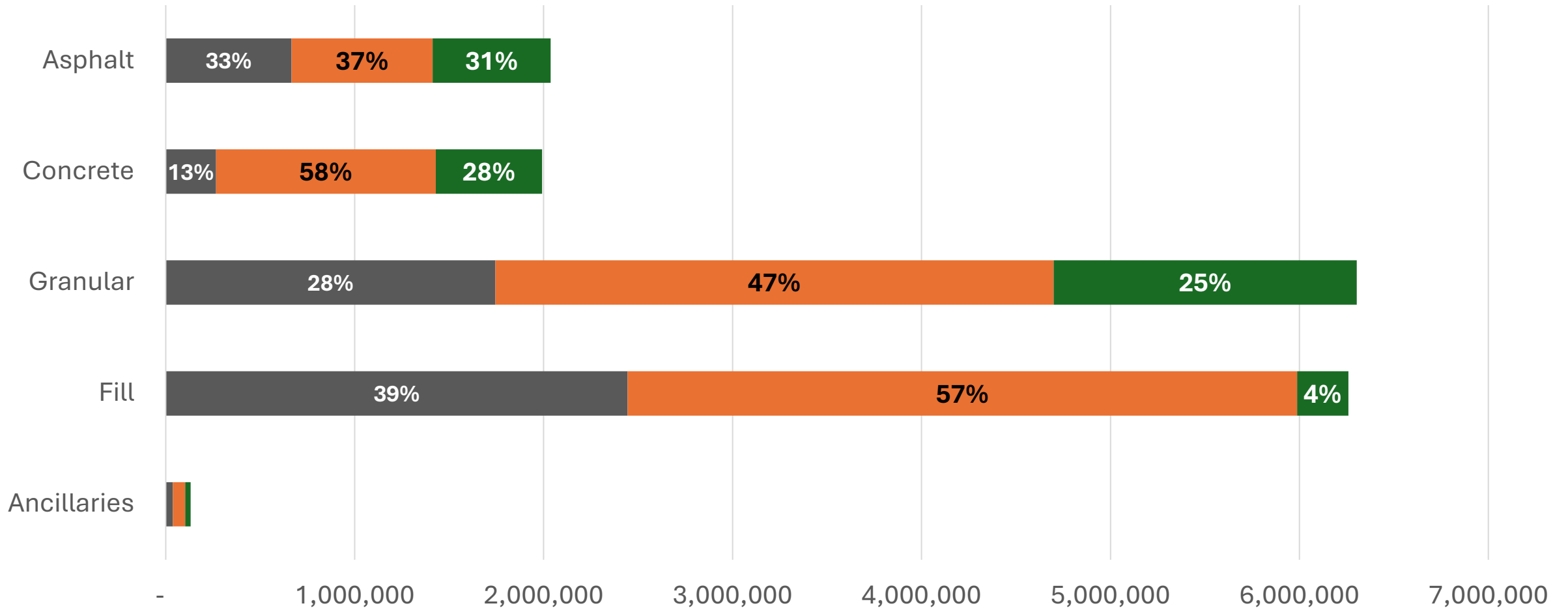
Commercial: Sand/ stone/ cement

Concrete plant (Commercial/ site)
 Main bridge structures

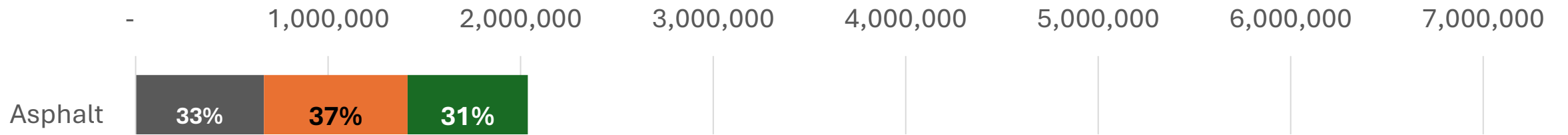
Concrete production:
 ✓ Bridges & structures: 21 000m³
 ✓ Walls: 51 000m³



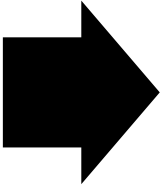
SUPPLIED **UNDER CONSTRUCTION** **FUTURE DEMAND**



SUPPLIED **UNDER CONSTRUCTION** **FUTURE DEMAND**



13% of Total Asphalt Tonnage
=
Bitumen – Rubber Layer



23% Supplied

SANRAL - Materials Source

RCL 9

HARRISONS



Illustration is for illustrative purposes only and not to scale



"We will always need quarries and construction materials. But it's not enough to just build—we must build with awareness of climate risk, so that roads don't just connect places, they withstand the storms to come."



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THANK YOU

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