

Closing the Loop since 2000.

Close the Loop have been helping businesses and brands improve their sustainability for over two decades.



Leading Innovations & Technologies for over 25 years

Advancing Circular Economy Solutions



Patented Technologies

We hold five global patents for recycling complex waste streams, including eWood®, toner cartridges, inkjet cartridges, and two innovations for TonerPlas®.

TonerPlas® and TonerBind™



**Recycled soft
plastics**



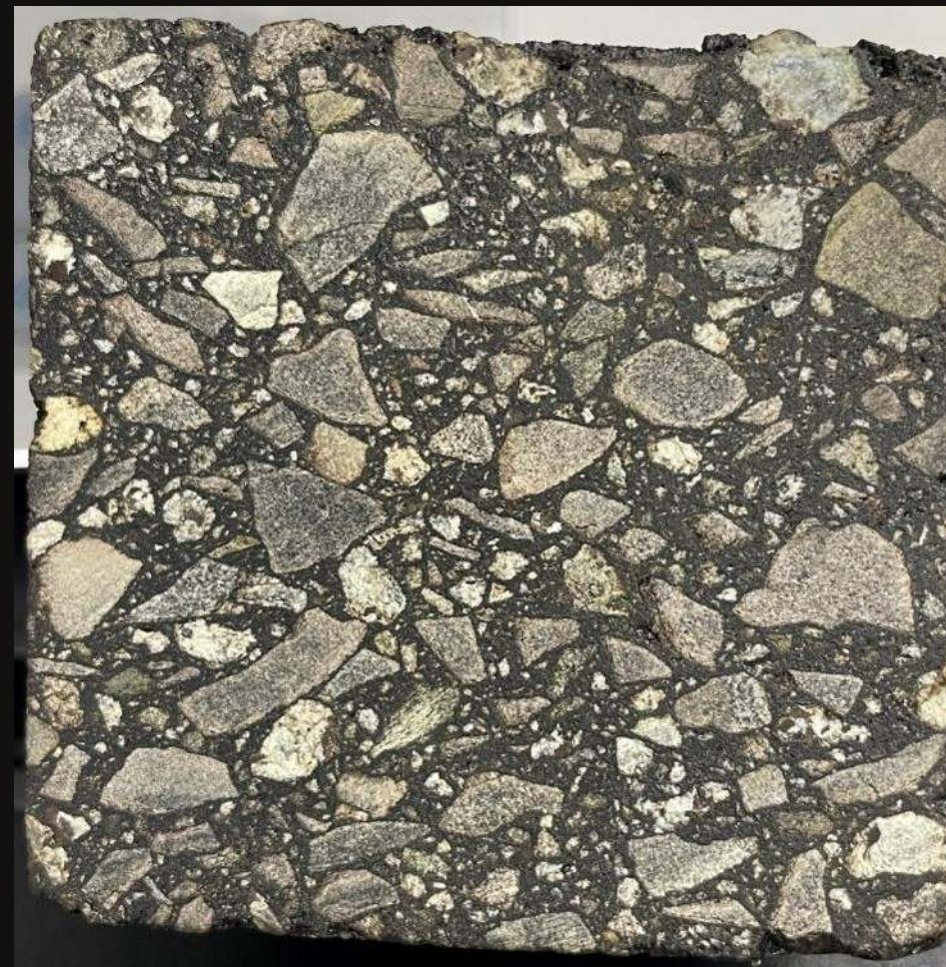
**Recycled toner
powder**



**Processed into
TonerPlas® and
TonerBind™**



**Used in roads
across Australia**

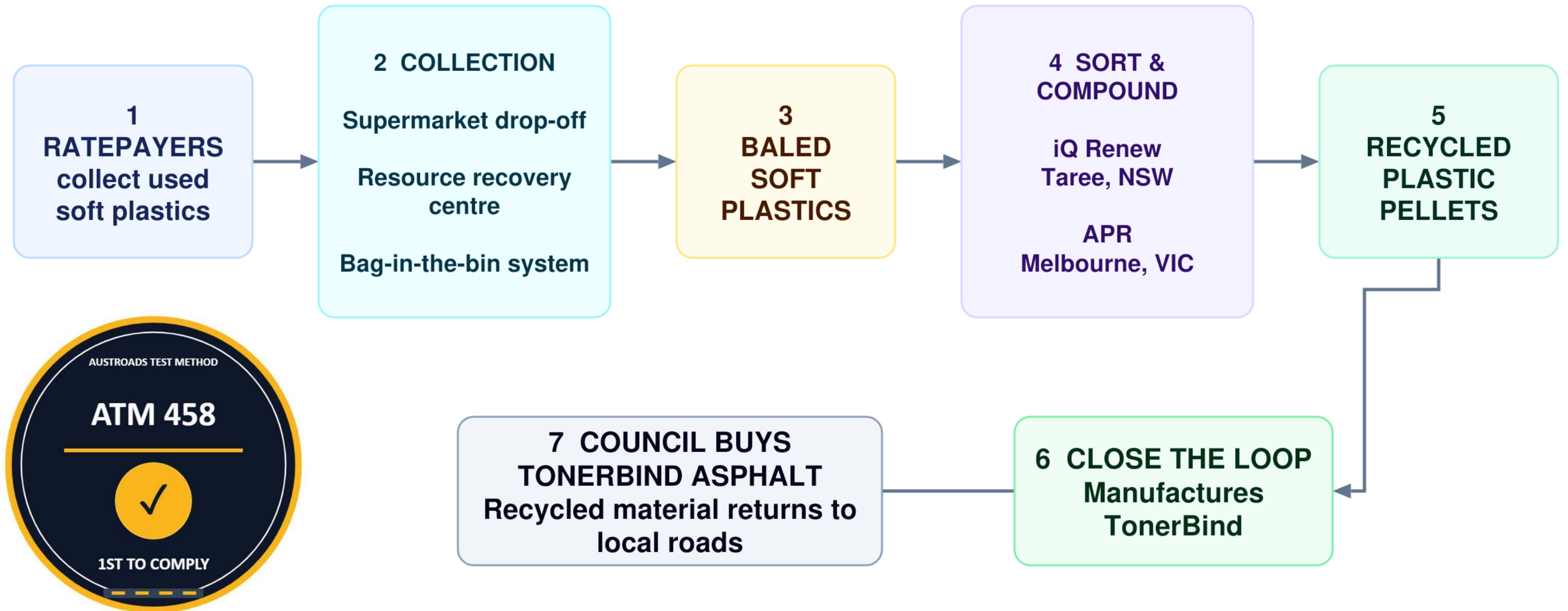


Keeping materials in circulation for longer



Council soft plastics come back as better roads

Ratepayers supply the material. Council procurement completes the loop.



A practical local circular-economy pathway for hard-to-recycle soft plastics

One typical resurfacing job puts 1.38 tonnes of TonerPlas to work

Council Road Planning Estimate • 0.5% TonerPlas addition

≈ 468 metres resurfaced

≈ 275 tonnes of asphalt

Typical two-lane road • 7 m wide • 35 mm overlay

**1.38 t
TONERPLAS USED**

**≈ 6,300
CARTRIDGES
SUPPLY THE TONER**

**≈ 270,000
PLASTIC-BAG
EQUIVALENTS**

**1 local road
RECYCLED
MATERIAL
PUT BACK TO WORK**

Ten similar projects would use about 13.8 tonnes of TonerPlas — equivalent to 62,900 cartridges and 2.71 million plastic bags.

Planning estimate only, using CtL's published road-equivalent figures. Actual projects vary by road width and asphalt overlay depth.

TonerPlas®

100% Recycled

Every tonne of TonerPlas® uses plastic from 106,000 plastic bags and toner from 2,500 waste toner cartridges

Cost Effective

Roads last longer, require less maintenance, reducing whole-of-life cost

Performance

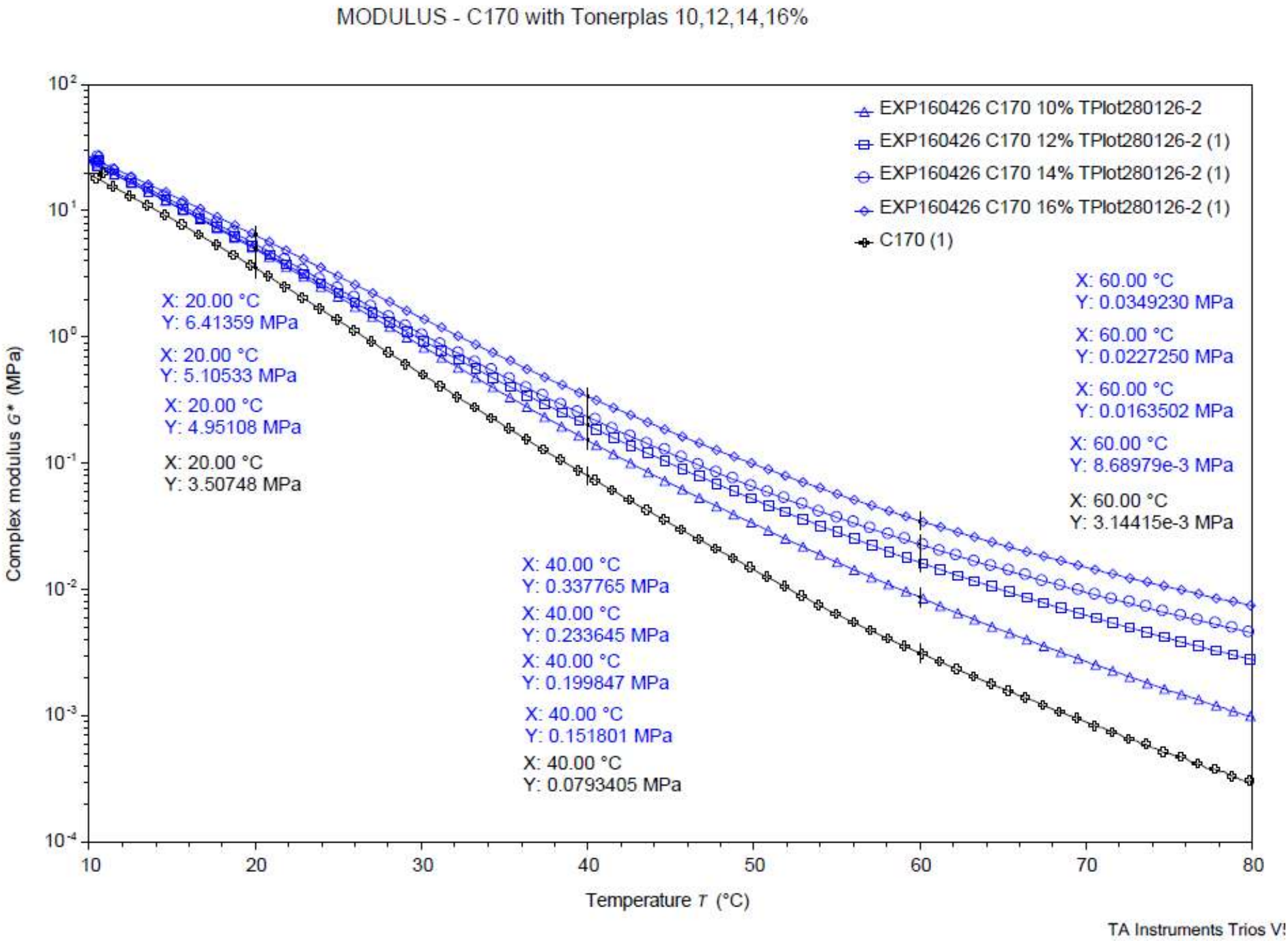
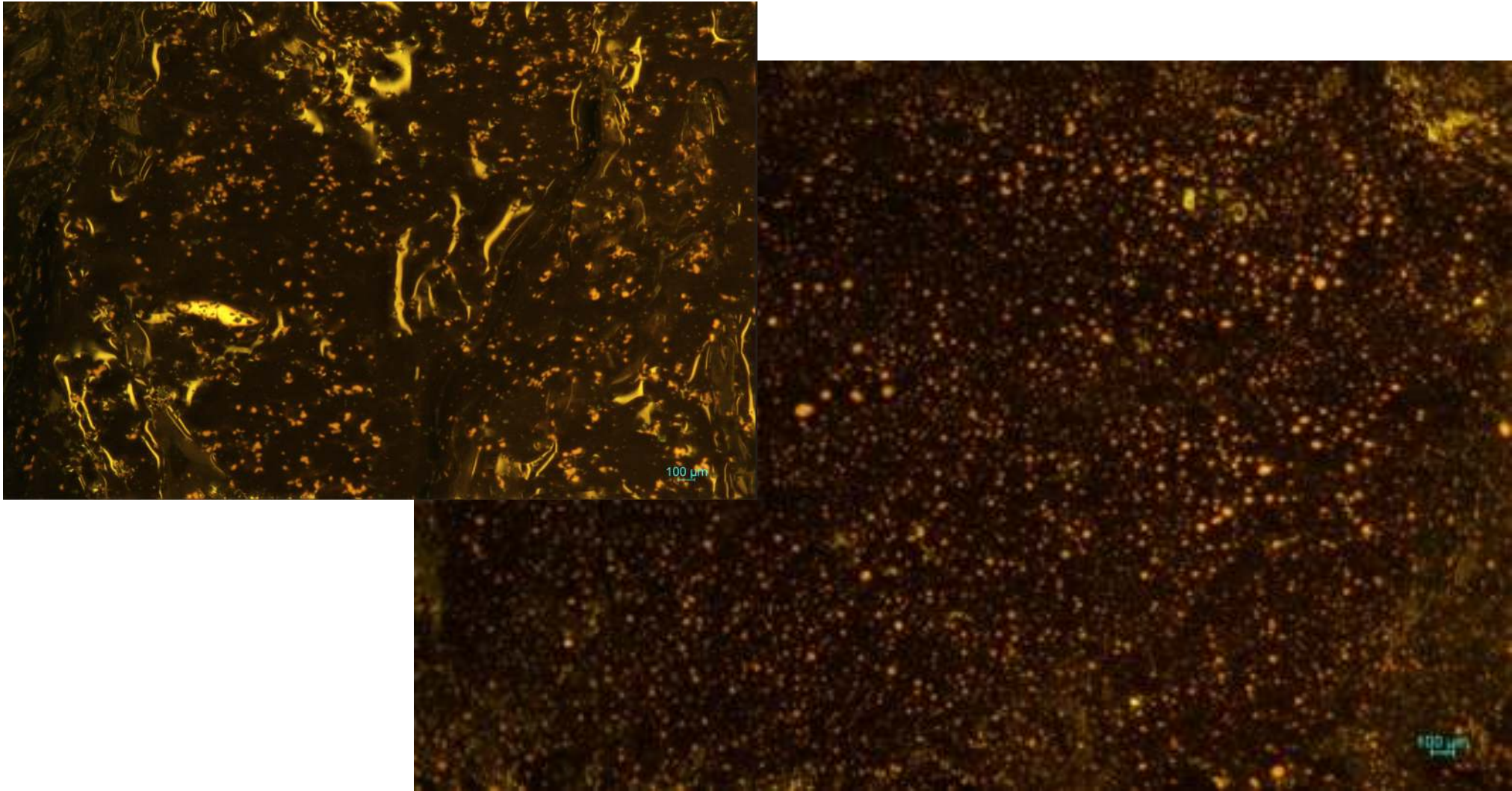
Improved resistance to cracking, rutting, potholes and heat

Lower carbon footprint

100% Recyclable



Here's the BIG news



Partial Bitumen Substitute

Council adopters across Australia

Documented TonerPave / TonerPlas use



City of Parramatta



City of Newcastle



Central Coast Council



Bayside Council



Ku-ring-gai Council



Lake Macquarie City Council



Sutherland Shire Council



Hume City Council



Kingston City Council



City of Stonnington



Wyndham City Council



City of Yarra



City of Boroondara



City of Monash



Banyule City Council



City of Adelaide



City of Charles Sturt



City of Onkaparinga



City of Marion



City of Tea Tree Gully



Glenorchy City Council



Kingborough Council



ACT Government



Shellharbour City Council



Darebin City Council



Latrobe City Council



Nillumbik Shire Council



City of Salisbury



City of Casey



Manningham City Council



Shoalhaven City Council



Brimbank City Council



City of Port Adelaide Enfield



Adelaide Hills Council



City of Greater Bendigo



City of Ballarat