Products of the Future
Solutions for Shaping a Sustainable World

Todd Summe
Chief Research and Development Officer
Novelis
Shaping a Sustainable World Together
Integrated Solutions
Connected Mobility
Functional Materials
Sustainable Packaging
Digital Manufacturing
Next Gen Computing
Aluminum
CONNECTED MOBILITY
Technology adoption leader for 7000 series aluminum

Nio ES6
Currently the Best Selling Luxury Car in America
Removing Steel from Automobiles of the Future

High strength & toughness

High formability and hot form

High speed multi-material joining

Closed loop, Convert non-Auto, End of life
Staying ahead of disruptions
ADDITIVE MANUFACTURING
FUNCTIONAL INTEGRATION & ADVANCED MATERIALS
1 Million
1 Minute
Aluminum cans average 3x more recycled content than plastic or glass bottles.
Is This the End of Recycling?

Americans are consuming more and more stuff. Now that other countries won’t take our papers and plastics, they’re ending up in the trash.

ALANA SEMUELS  MAR 5, 2019
Design-for-purpose.

Reduce metal weight via alloy & process.

Increase recycling rate.
Innovation Principles for Sustainable Growth

- Reduce material via design and advanced alloys
- Increase functional integration via advanced materials & technology
- Implement comprehensive recycling solutions
Shaping a Sustainable World Together
Thank You