

# STATE OF THE COBALT MARKET IN 2020

Cobalt demand was robust despite COVID-19 with annual growth of 5%

## Consumption of cobalt by application

 **57% Batteries for electric vehicles, tablets and smartphones**

 **5% increase**

- Sales of new electric vehicles increased 42% compared to 2019 (mostly in Europe).
- Demand in lithium-ion batteries rose by 10% year-on-year.
- Sales of new energy vehicles to increase 30% year-on-year to 2025.

 **13% Nickel-based alloys**

 **12% drop**










- Shutdown in aerospace.
- Slow recovery might have longer term impact on cobalt demand.

 **8% Tool materials**

 **12% drop**

- Drop-off in global industrial production.

## Global supply


 66% DRC	 3% Canada
 5% Australia	 3% Cuba
 4% Russia	 3% Zambia
 4% The Philippines	 9% others
 3% Papua New Guinea	

**ASM** – Artisanal & small-scale mining was an important source of cobalt supply in 2020.

**ASM – 9% of DRC mine production in 2020, ≈100k people involved.**



## Asia is the largest cobalt-consuming region

 **32%** China

 **23%** Europe

  **18%** Japan, South Korea

  **18%** North America

## Cobalt production trends

 **Cobalt mining**

 **6% drop to 145 KT**

- COVID-19-related production suspensions in Canada, Morocco, Madagascar, South Africa.
- The world's biggest mine was put on care and maintenance in late 2019.

 **Refined production**

 **5% drop to 132 KT**

- Reduced availability of feedstocks.
- COVID-19-related shutdowns.
- Weaker industrial demand due to the pandemic.

 **Cobalt recycling**

**= 10.6 KT**

- 65% battery recycling
- 24% tungsten carbide recycling
- 11% recycling of alloy scraps & catalysts