

Global Developments in Bauxite, Alumina and Aluminium Past, Present and Future

Ron Knapp

Secretary General

International Aluminium Institute, London, United Kingdom

Corresponding author: ron.knapp@world-aluminium.org

Abstract

The IAI role on behalf of the global aluminium industry is to promote the global market for aluminium and to build community understanding of aluminium as a material that improves living standards and contributes to a better and more sustainable world environment

The IAI in all its activities supports the concept that aluminium is a material that lends itself to improving people's living standards and developing a better and sustainable world environment.

The challenges for our industry include:

- Resource use
- Environmental
- Occupational & environmental health
- Trade/resource constraints
- Addressing sustainability in a whole lifecycle approach;
- Responding to consumers

Aluminium, a growth metal, in a changing world: consumption growth has remained above global economic growth, but our industry must justify its use of global resources – and demonstrate safe management of all facilities.

Aluminium is changing with a changing world – and who we are as an industry: aluminium structural change from old world to new world.

Aluminium demand moves forward with a country during different stages of development, from infrastructure-heavy to consumer-heavy demand; new markets, new growth markets, new growth countries; developing countries/markets become developed markets

Aluminium structural change at the corporate level: from integrated to independent to individual business models; the integrated industry model of the '70s and '80s is further challenged: alumina and bauxite now separate commodities; multiple strategies depending on corporate circumstances.

Aluminium industry still growing, but forecasts reflecting more subdued increases in demand

The challenge of a brave new world: structural change for aluminium through the eyes of a bauxite case study - now a global commodity; with alternative resource development models being pursued by different countries; the role of Indonesia, Malaysia and Guinea in the new world of independent bauxite.

Keywords: International Aluminium Institute; environment; sustainability; aluminium growth; independent bauxite.