

Lithium Network Project

Adilson Oliveira, Ph.D.
&
Michael Peterson, Ph.D.



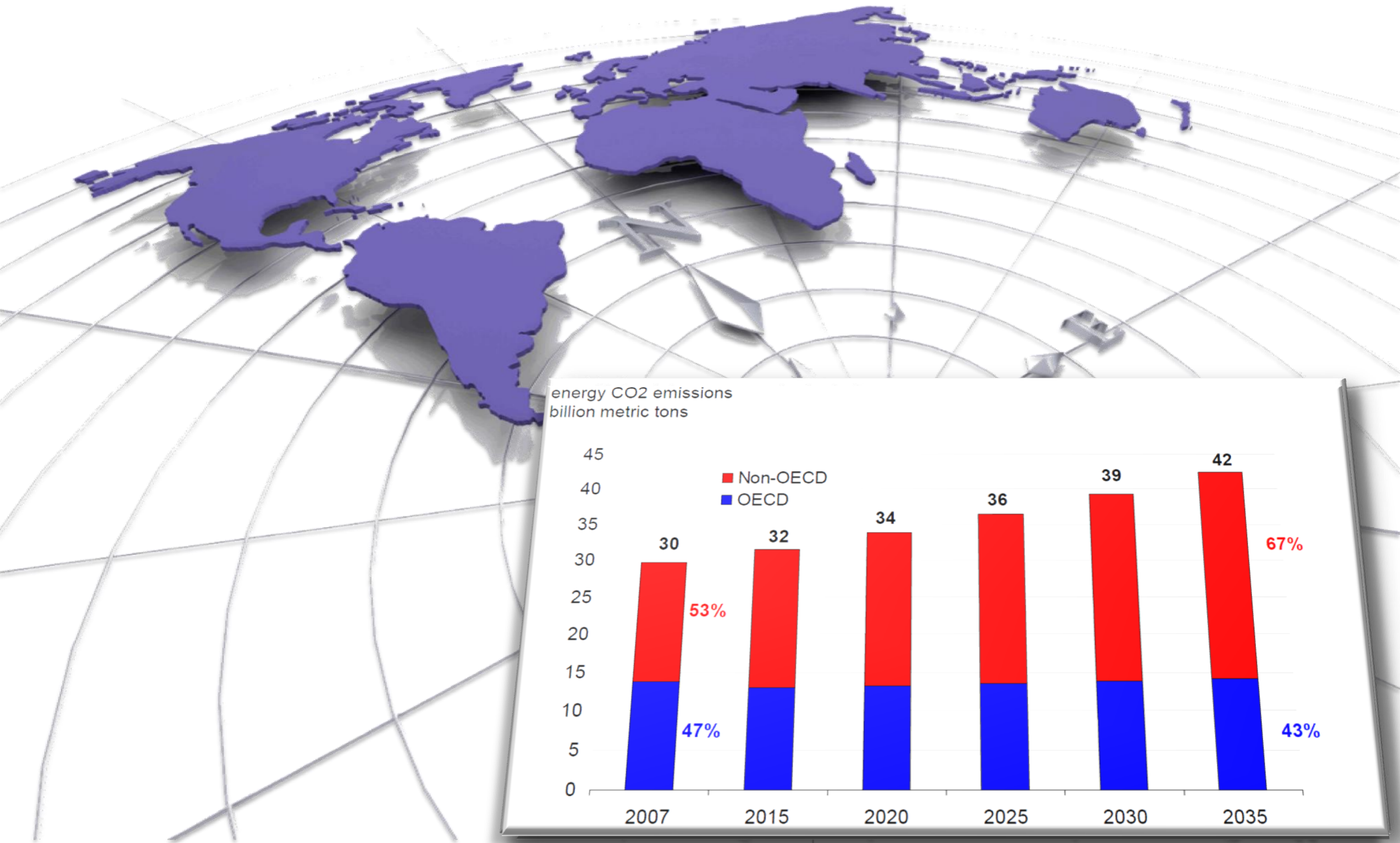
Himeji Castle

UNESCO World Heritage



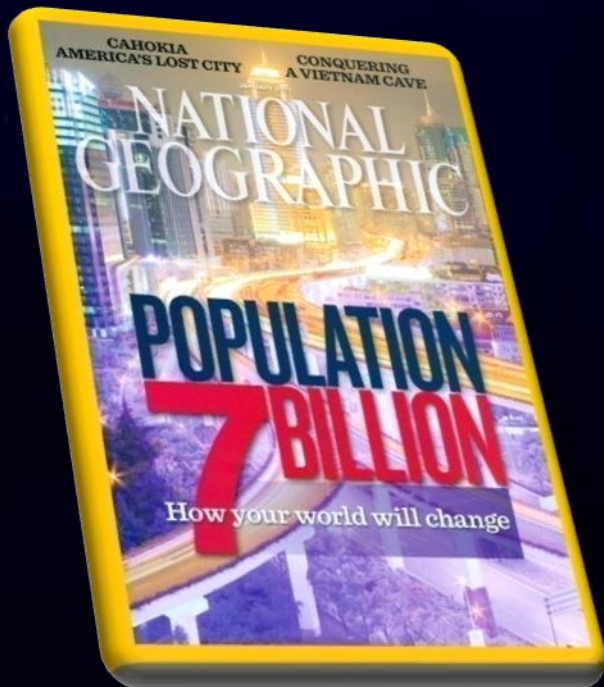
Shinkansen

Japanese bullet train



Energy Overview

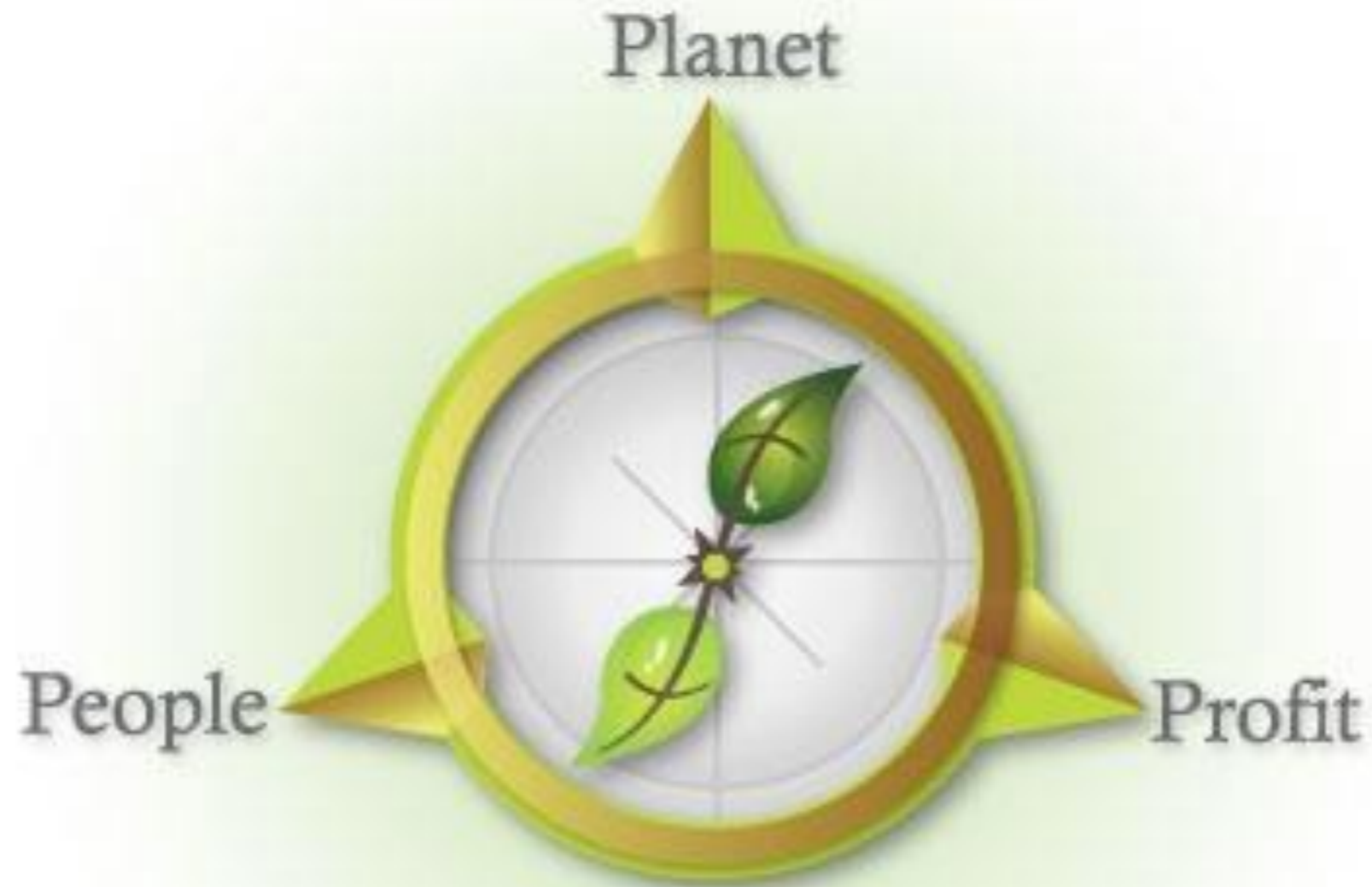
Source: International Energy Outlook 2010
www.eia.doe.gov





"Think lightly of yourself
and deeply of the world"

Miyamoto Musashi - 1600 a.C.



Sustainability Compass

Global Challenge



GP- General Purpose

Jeep Compass – Chrysler Group

Li

3

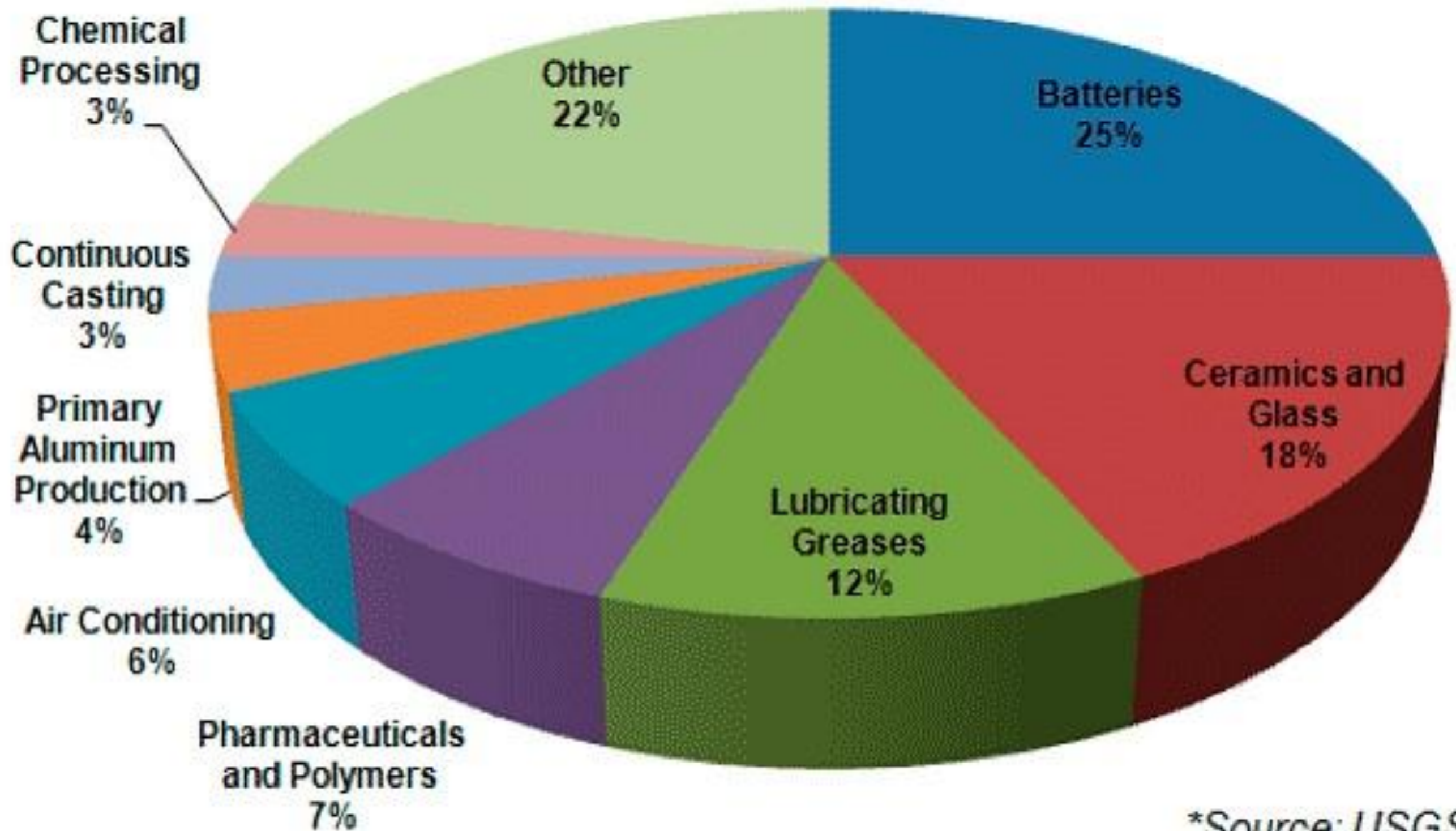
6.941



Lithium

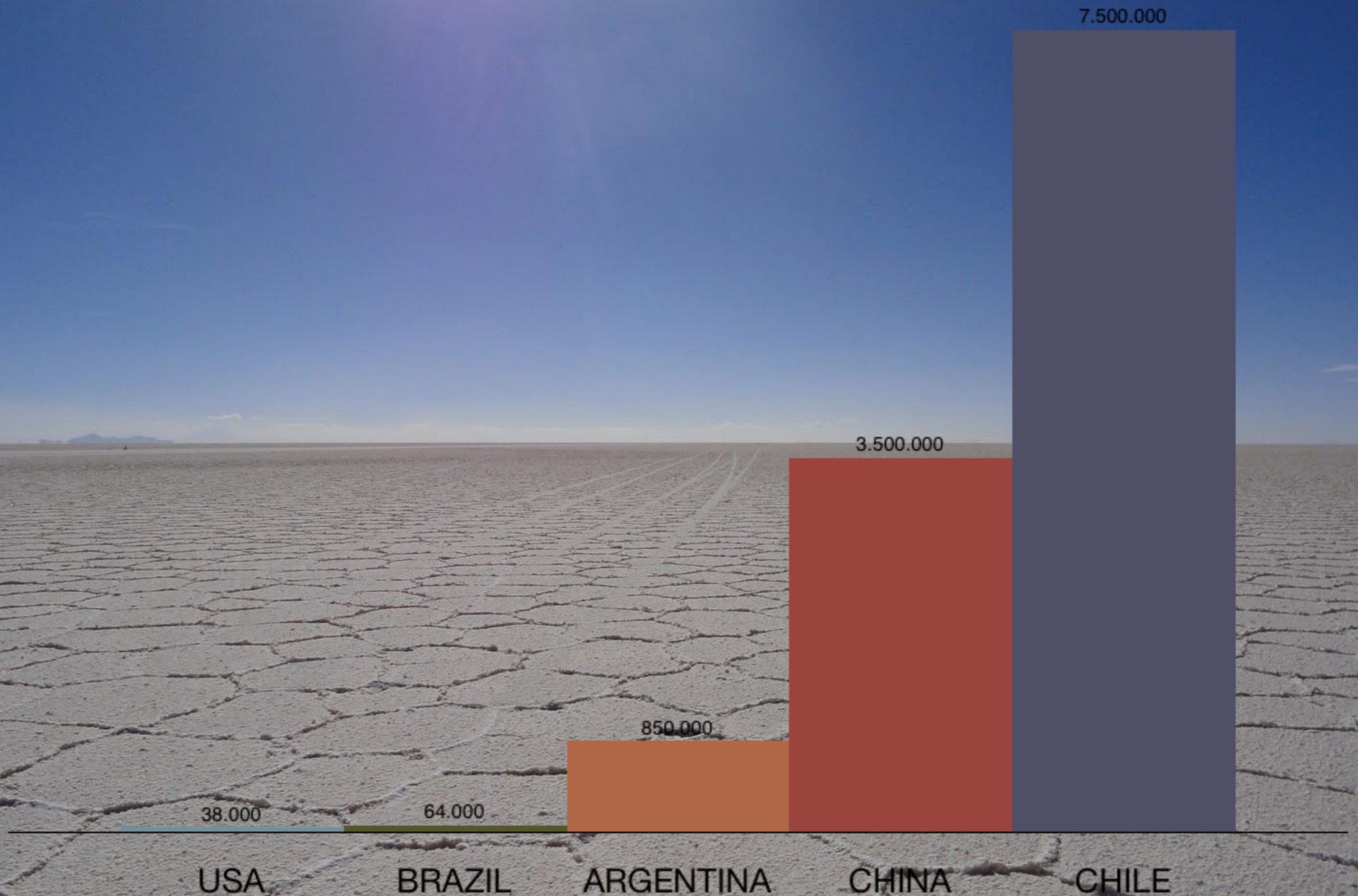


Lithium Consumption Worldwide (2008)



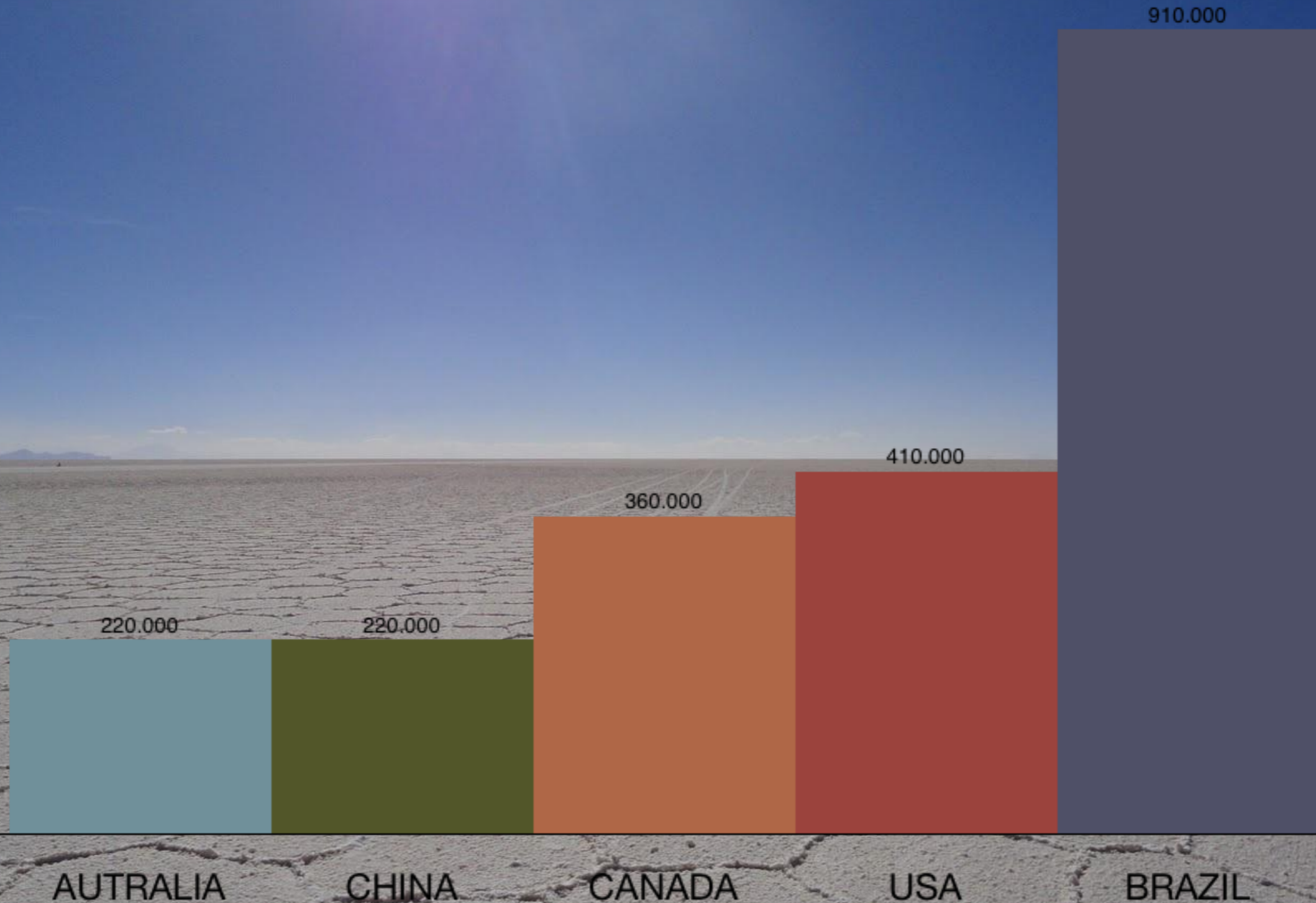
*Source: USGS

Lithium Reserves - Brines and Pegmatites

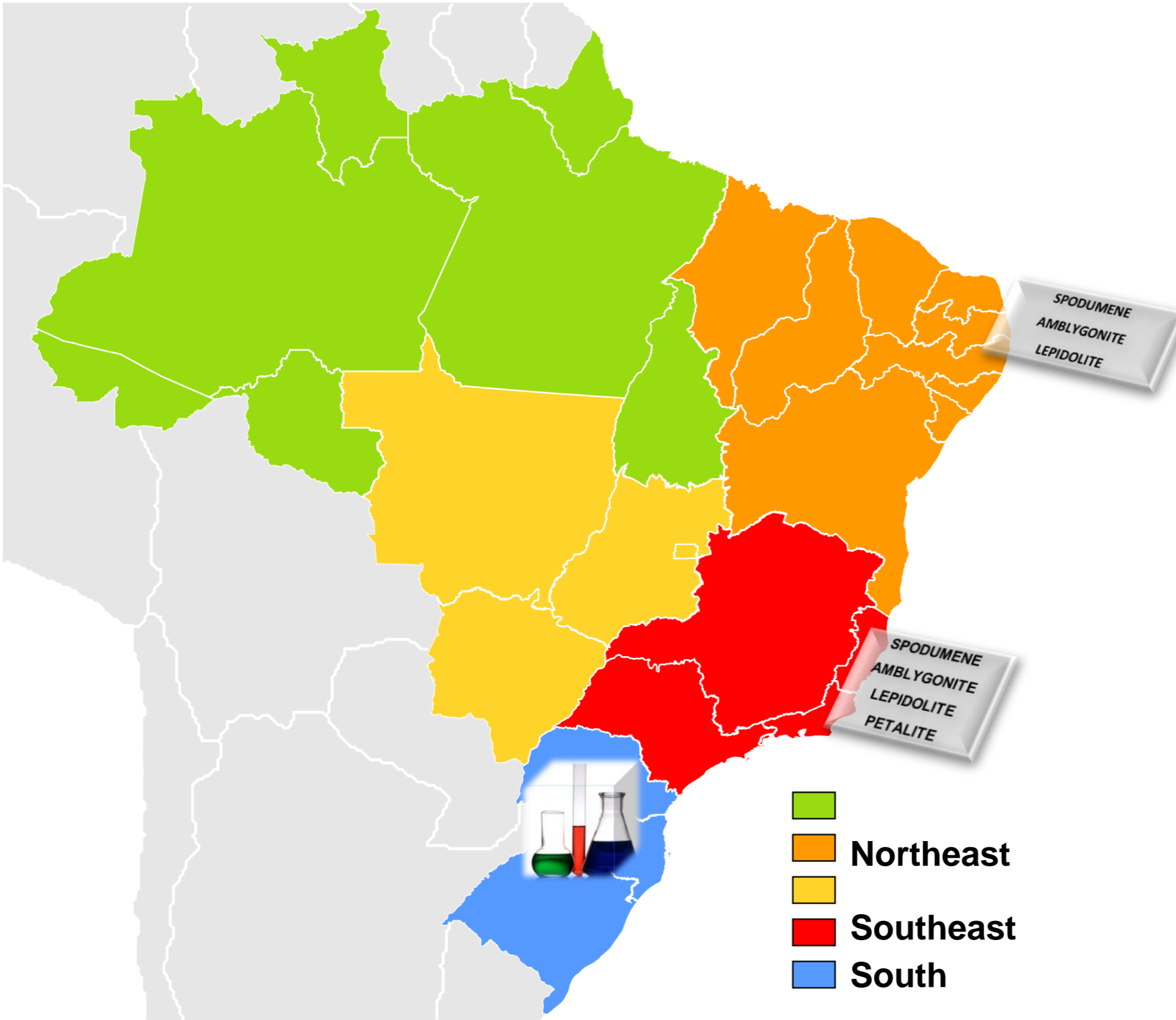


Source: USGS - 2011.

Lithium Reserves Base - Pegmatites



Source: USGS - 2008.



Brazilian Lithium Deposits

Source: DNPM - Brazil

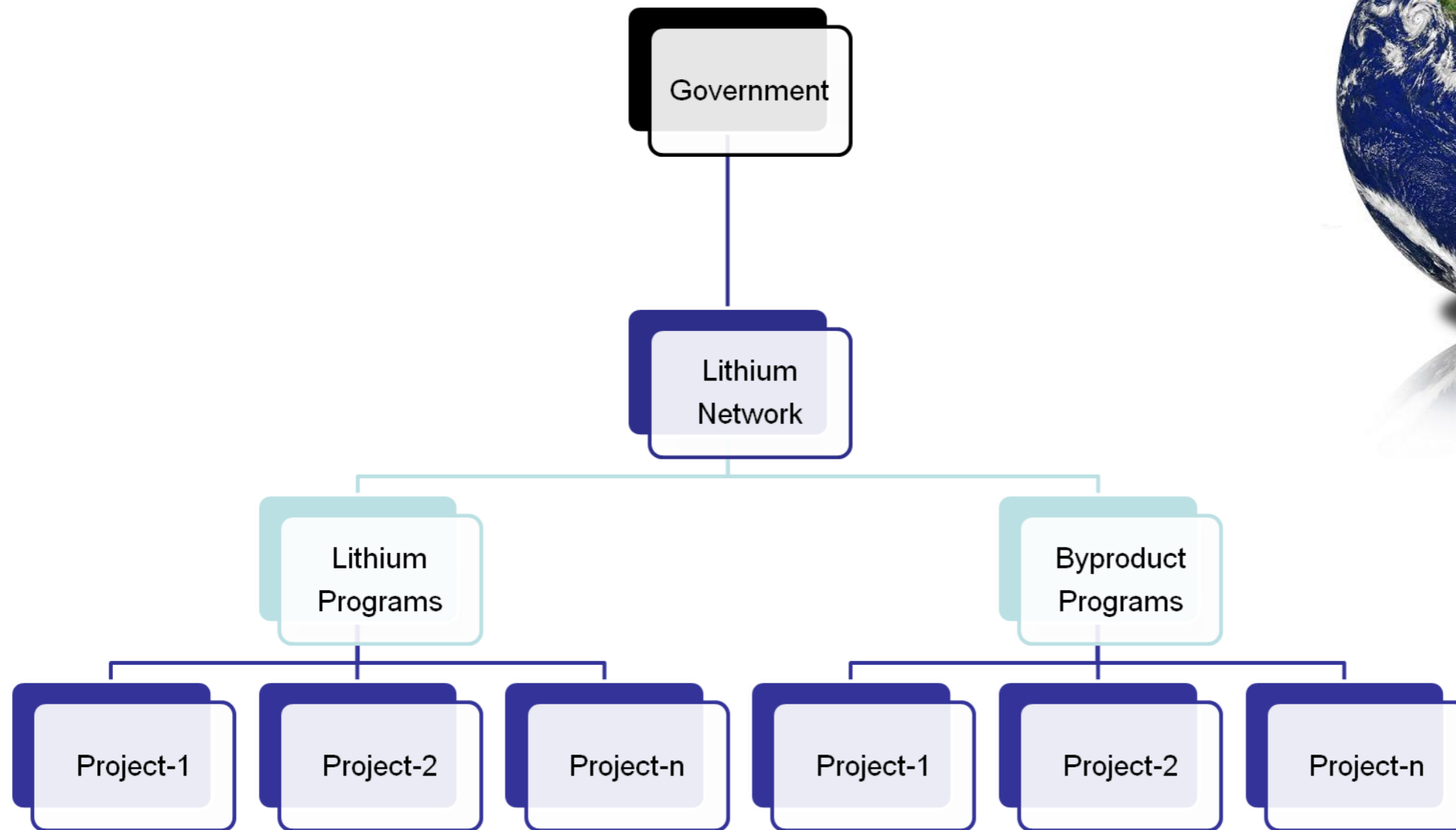
Mission (now)

“Develop processes and products from lithium ores to energy sector and related companies for sustainable and economic applications.”



Vision (future)

“Be a national reference network on lithium ores recovery to energy solutions by promoting sustainable development.”



Work Breakdown Structure



Network Partners Search

DNPM
Departamento Nacional de Produção Mineral

FULGURIS

CETEM
CENTRO DE TECNOLOGIA MINERAL
Ministério da Ciência e Tecnologia

CPQD

CODEMIG
Comissão de Defesa da Mineração

CYTED


unesc





1979



2009

“ We will try to create conditions where persons could come together in a spirit of teamwork, and exercise to their heart's desire their technological capacity.”

Akio Morita – Founder of Sony



unesco

Technological Park

PTD Lithium Informations

adilson@unesco.net
michael@unesco.net