A Nuclear Fuel Producer's Perspective on Assurance of Supply Initiatives

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Nuclear Renaissance

"We have no time to experiment with visionary energy sources; civilization is in imminent danger and has to use nuclear—the one safe, available, energy source—now or suffer the pain soon to be inflicted by our outraged planet."

James Lovelock

"Nuclear energy is the only nongreenhouse gas-emitting power source that can effectively replace fossil fuels and satisfy global demand." Patrick Moore

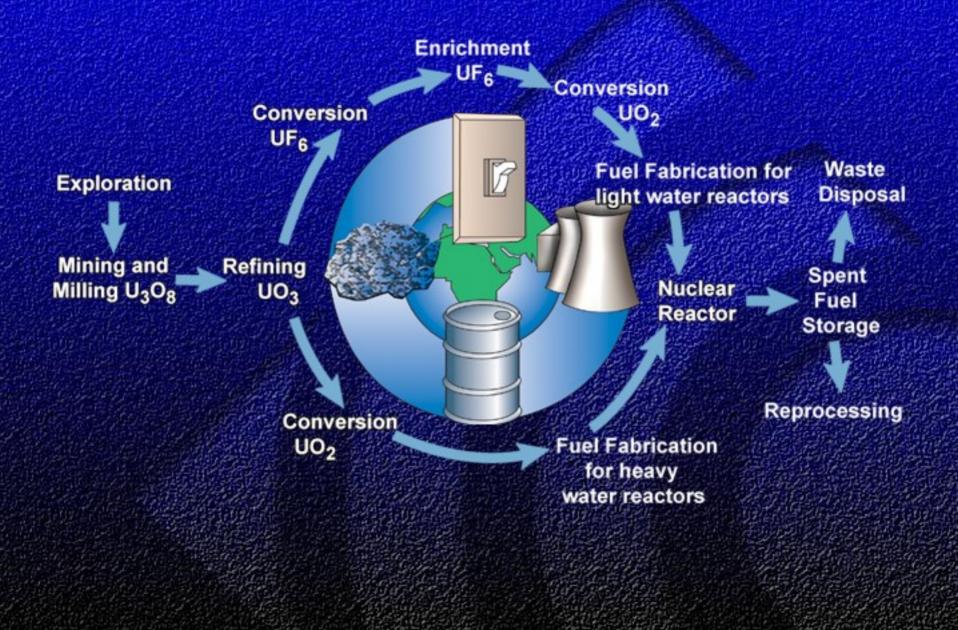
"I have been a committed environmentalist for many years. It is because of this commitment and the graveness of the consequences of global warming for the planet that I have now come to the conclusion that the solution is to make more use of nuclear energy." Hugh Montefiore

International Nuclear Fuel Market

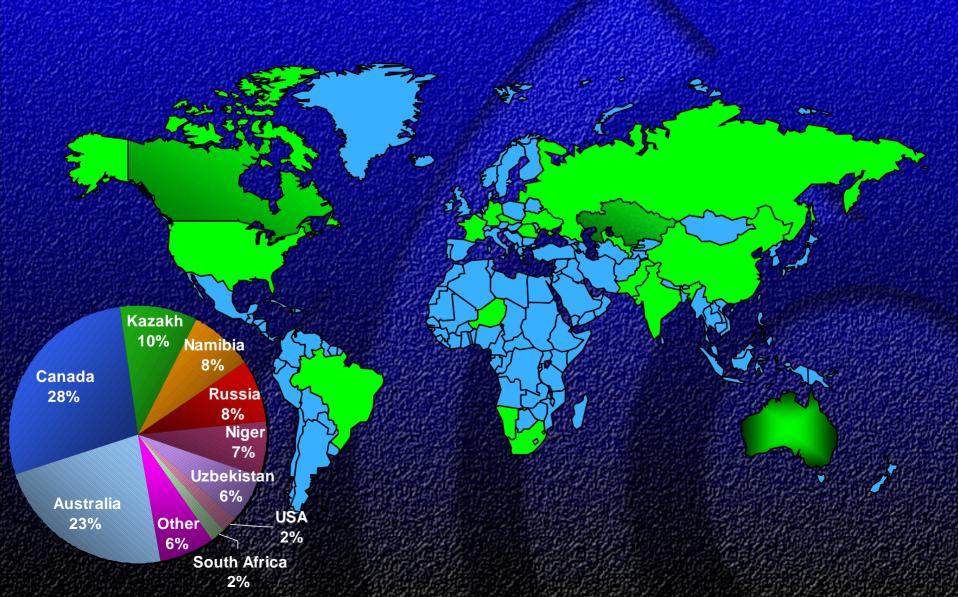




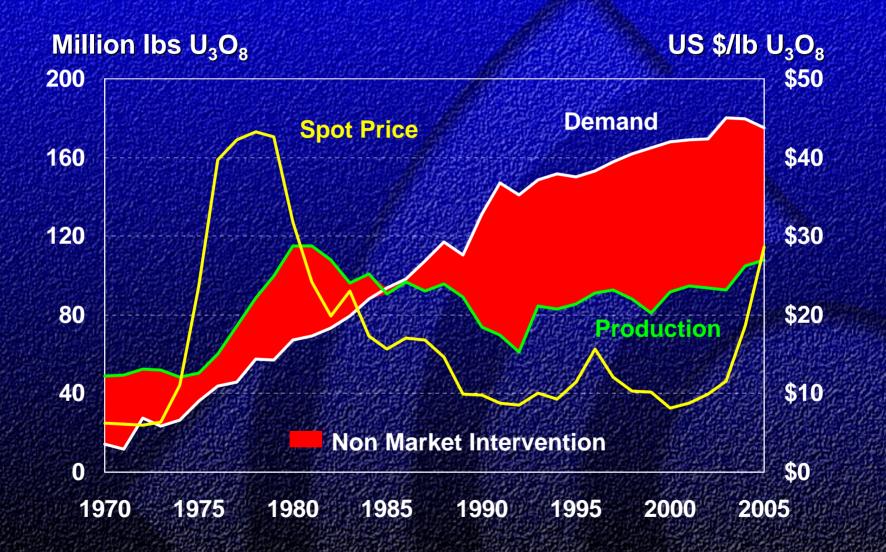
Nuclear Fuel Cycle



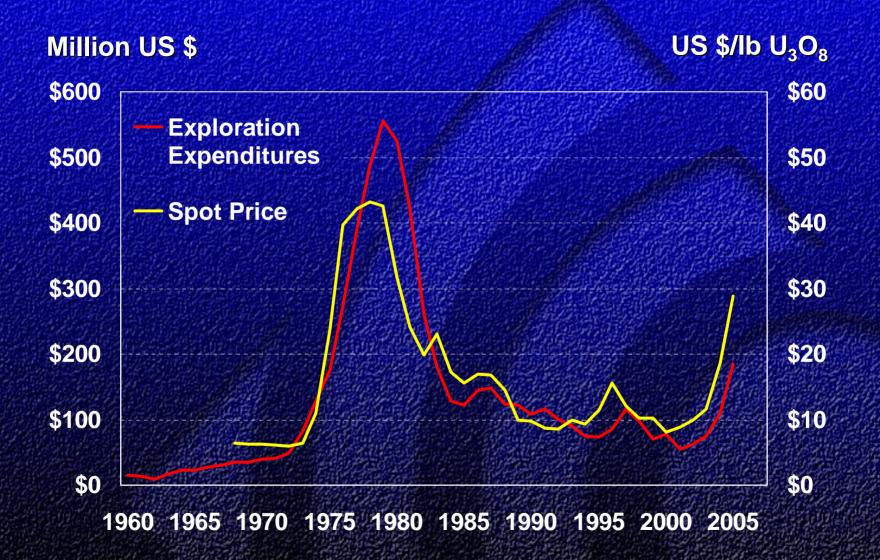
Uranium Producers



Uranium Production vs Demand

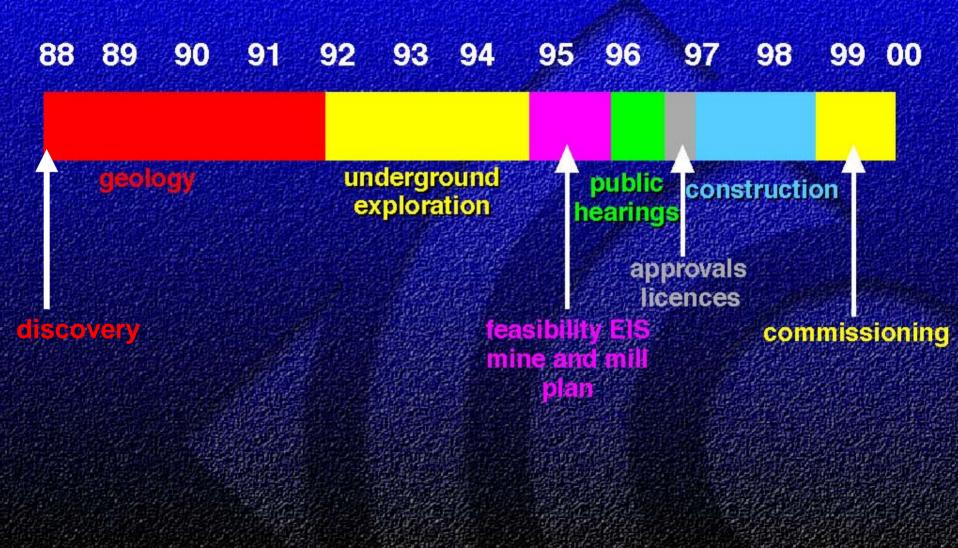


Exploration Expenditures vs Spot Price

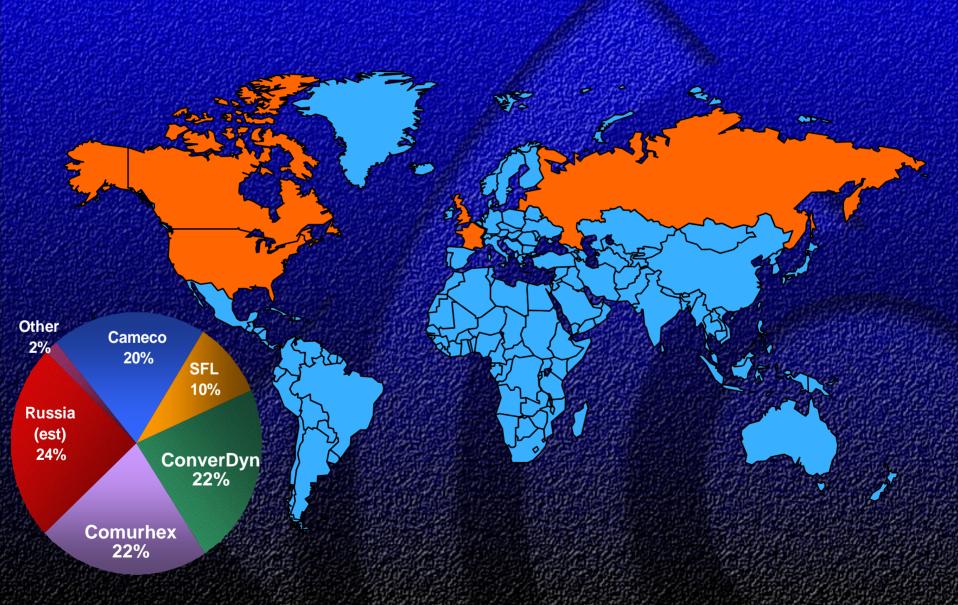


McArthur Development Timeline

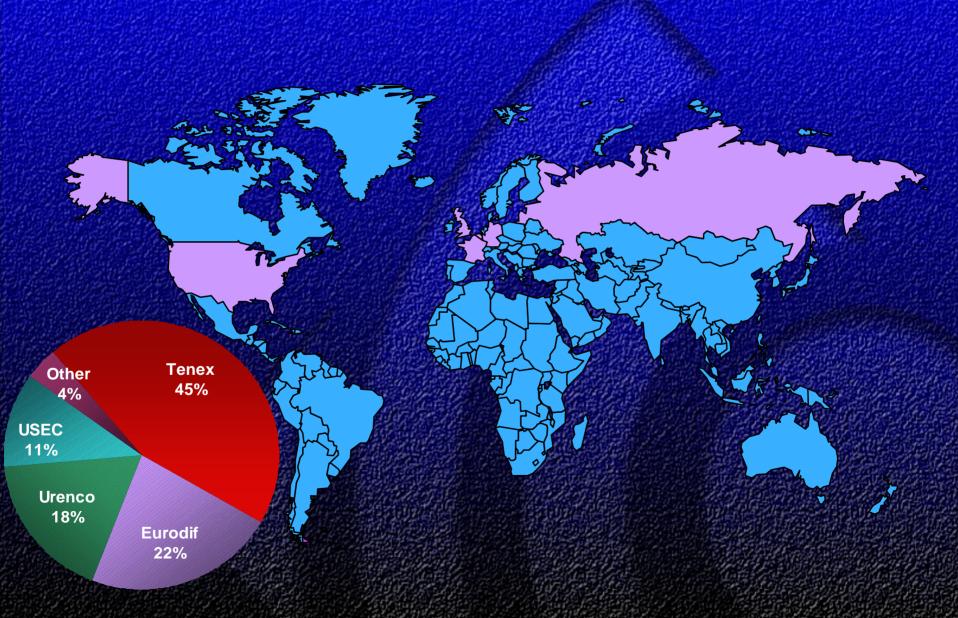
11 years



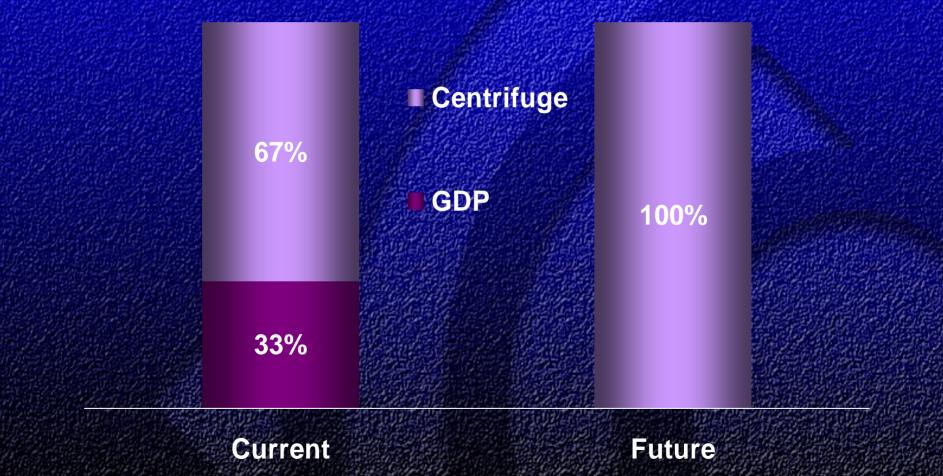
Converters



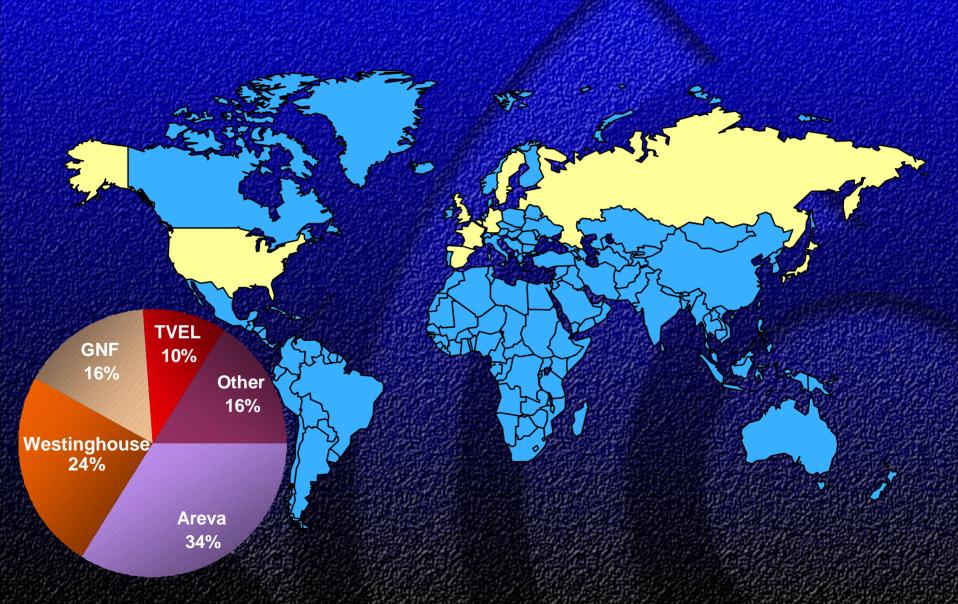
Enrichers



Enrichment Capacity By Technology



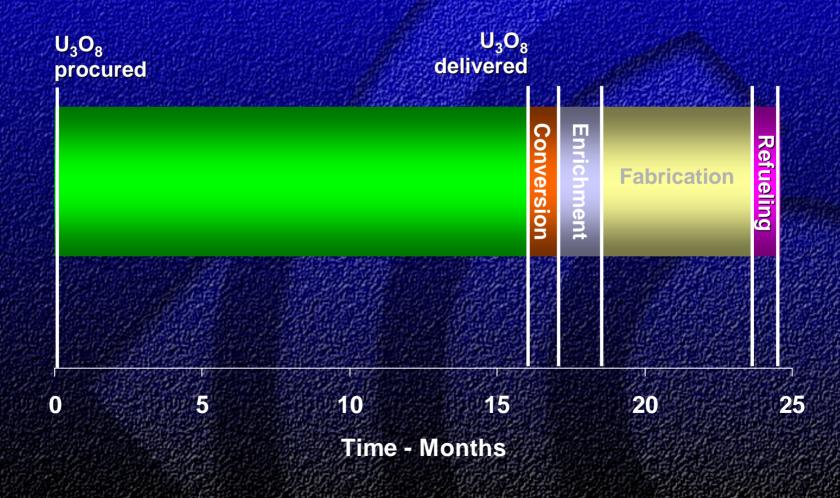
Fabricators



Procurement Conventions

Lead Time

uranium procured ~ 2 years prior to reload



Procurement Conventions Contracting



no organized exchange

Spot 20%

Term 80%

Transportation & Regulation



"In over 45 years of transporting nuclear materials there has never been an incident resulting in a significant release of radioactivity. This record of success is a tribute to the effectiveness of the regulatory framework as well as the collective competence of the entities performing packaging and transport activities."

WNTI Website

International Nuclear Fuel Market

responding to supply and demand indicators
safe, secure, and reliable
committed to peaceful uses



Assurance of Supply Initiatives

success requires:
predictability
transparency
compatibility with existing market

market mechanisms more efficient than government intervention

Assurance of Supply Initiatives Physical Inventory

What form?

- Where would the inventory be held?
- Who holds the inventory?
- How would the inventory be built?
- How big is the inventory?



Assurance of Supply Initiatives

Framework

last resort

- minimal disruption to commercial markets is essential
- full compliance with NPT required





assured fuel supply complements international fuel market

Canada integral participator

Cameco contribution

