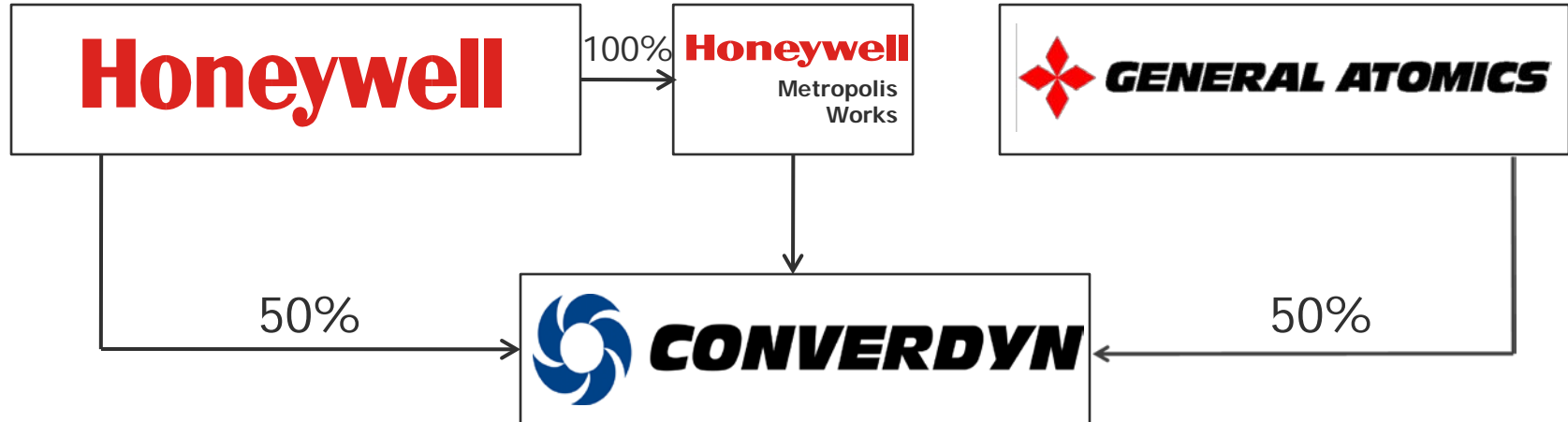
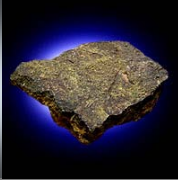


ConverDyn and Uranium Conversion

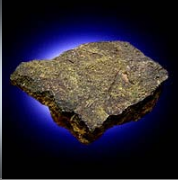
**Ganpat Mani
President & CEO**

**U.S. Nuclear Infrastructure Council
April 20, 2010**



- A 99-year general partnership formed in November, 1992
 - Conversion market was in over-supply with no new reactors being built
 - Honeywell and General Atomics entered into partnership
- Exclusive right to market all UF₆ produced at Honeywell's Metropolis, IL conversion facility
- Additional services include uranium sampling, material storage services, and product delivery
- ConverDyn provides invoicing, contract administration, accounting, and stake holder contact

Assuring our customers of proven, reliable, long-term supply



Honeywell

- Headquartered in Morristown, NJ
- 2009 revenue of \$31B
- 122,000 employees
- 4 strategic business groups



Automation & Control

- 2009 revenue of \$13B



Aerospace

- 2009 revenue of \$11B



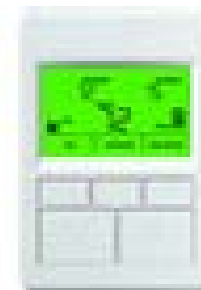
Specialty Materials

- 2009 revenue of \$4B

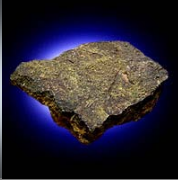


Transportation Products

- 2009 revenue of \$3B



A Fortune 100 Company with diverse businesses, technologies, and products



GENERAL ATOMICS

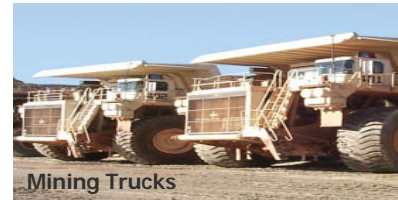
- Founded in 1955 as a division of General Dynamics
- Privately held
- More than 5,000 employees
- San Diego, CA headquarters contains 1M square feet of engineering & test facilities, precision manufacturing, and technology labs
- Operating groups and affiliated businesses
 - Fusion Group
 - Advanced Technology Group
 - Reactor Group
 - Aeronautical Systems, Inc
 - Nuclear Fuels
 - Sorrento Electronics
 - American Supercomputing Network, Inc
 - Power Inverters



Predator B



Heathgate Uranium Plant (South Australia)



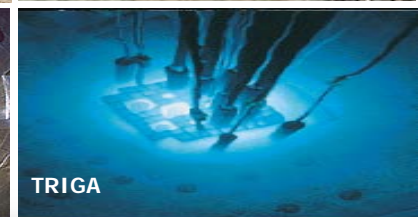
Mining Trucks



MH Reactor



National Fusion Facility

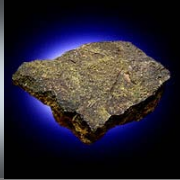


TRIGA

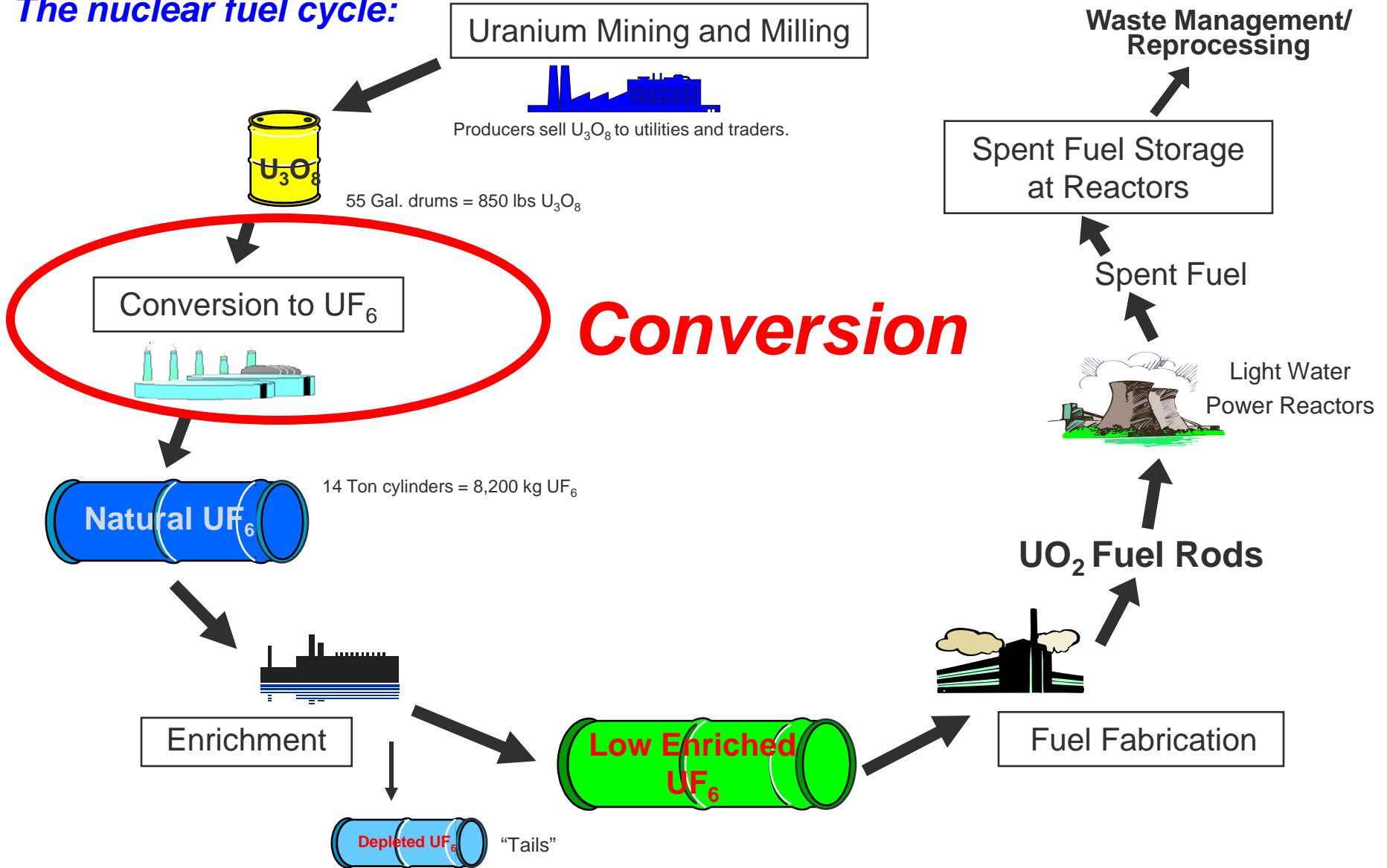


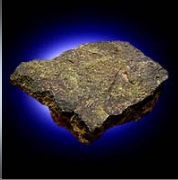
EMALS

Historical roots in nuclear have led into other advanced technologies

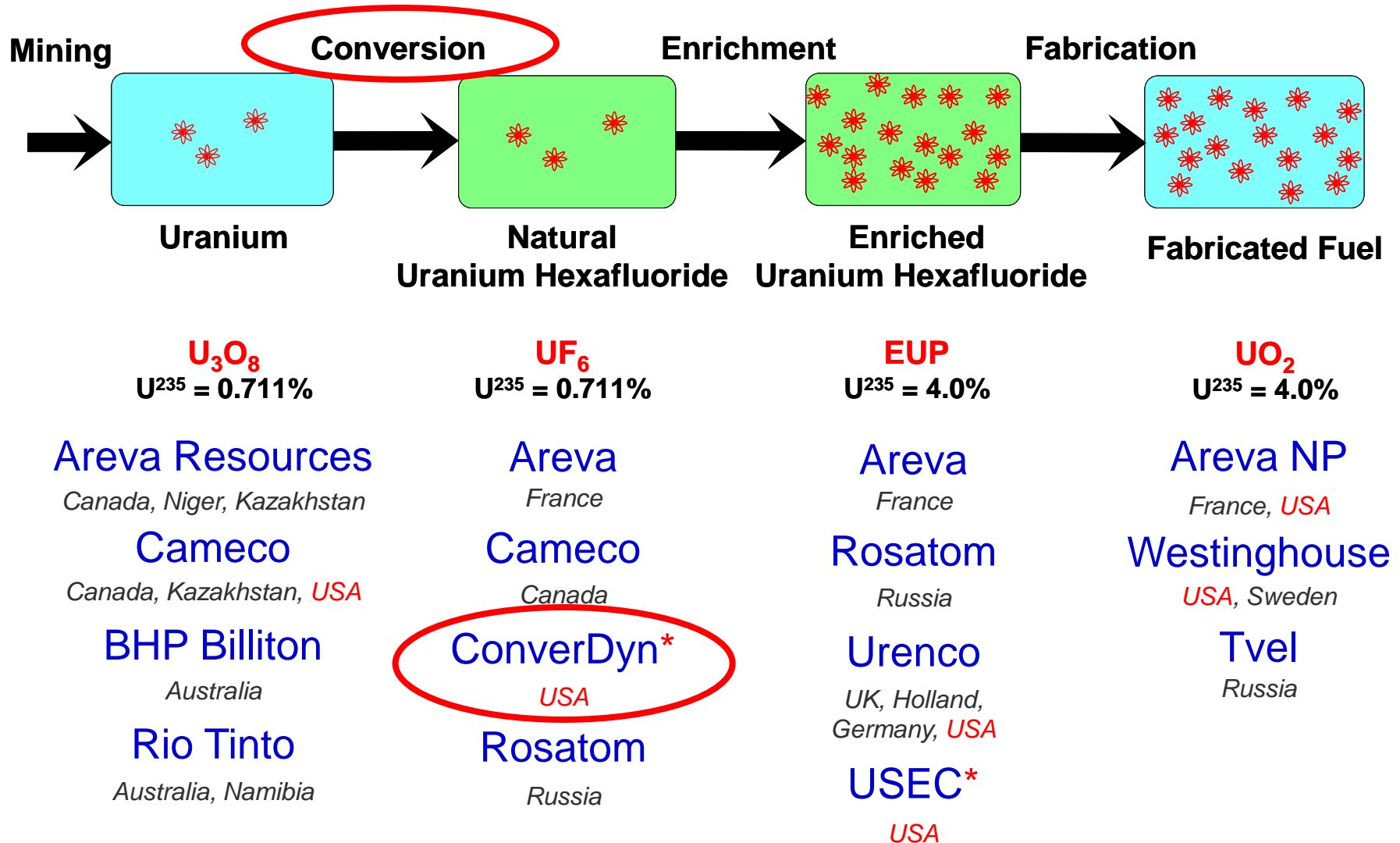


The nuclear fuel cycle:

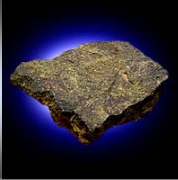




Major nuclear fuel cycle companies:

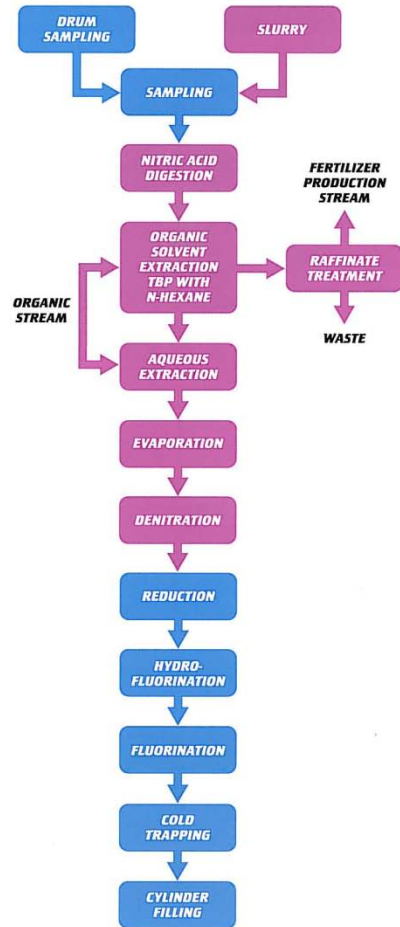


* Wholly US-owned entities



Honeywell

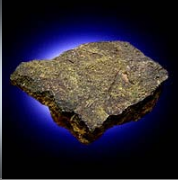
Classical Process



Fluoride Volatility Process



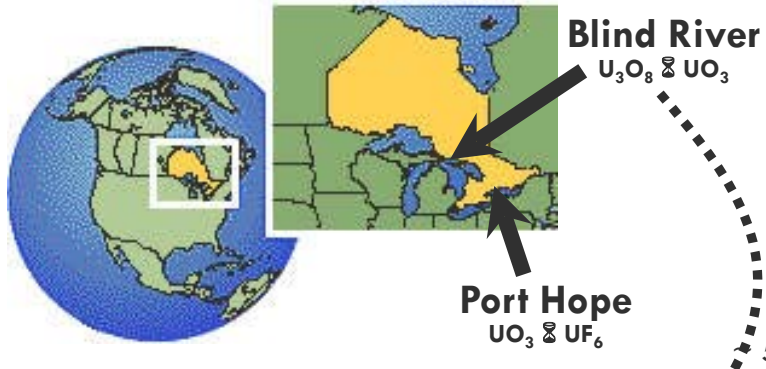
STAGE UNIQUE TO PROCESS



Conversion facilities:

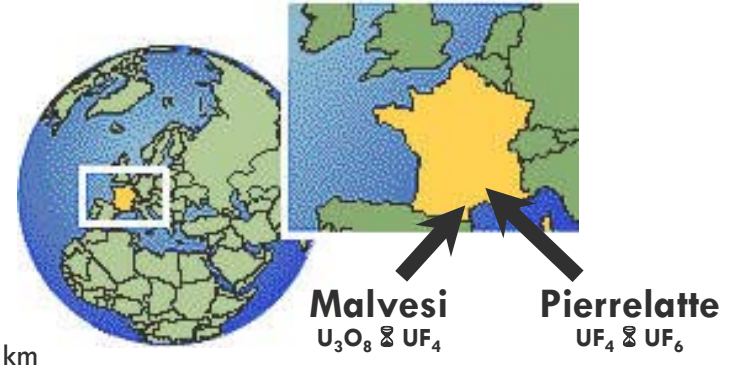
Cameco

Distance between facilities: 300 km



Areva

Distance between facilities: 200 km



Springfields

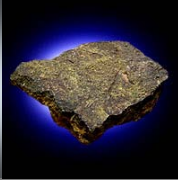
Operating UO_3 to UF_6 line under toll conversion agreement with Cameco



ConverDyn



5,600 km

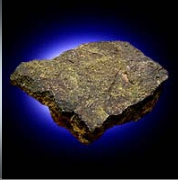


Metropolis plant facts:

Honeywell
Metropolis Works

- Site is on 1,100 acres, 60 acres are inside the fence line
- Operating UF₆ production under a 10-year license granted by United States Nuclear Regulatory Commission in June, 2007
- Responsible Care 14001 certification for commitment to health, safety, environment, and security
- ISO 9001 Certification verifies commitment to quality processes which ensure products continually meet or exceed customer requirements
- Nameplate capacity - 15,000 mtU as UF₆

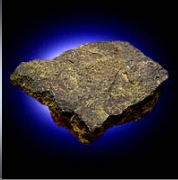
Metropolis Works ... the only operating conversion facility in the United States



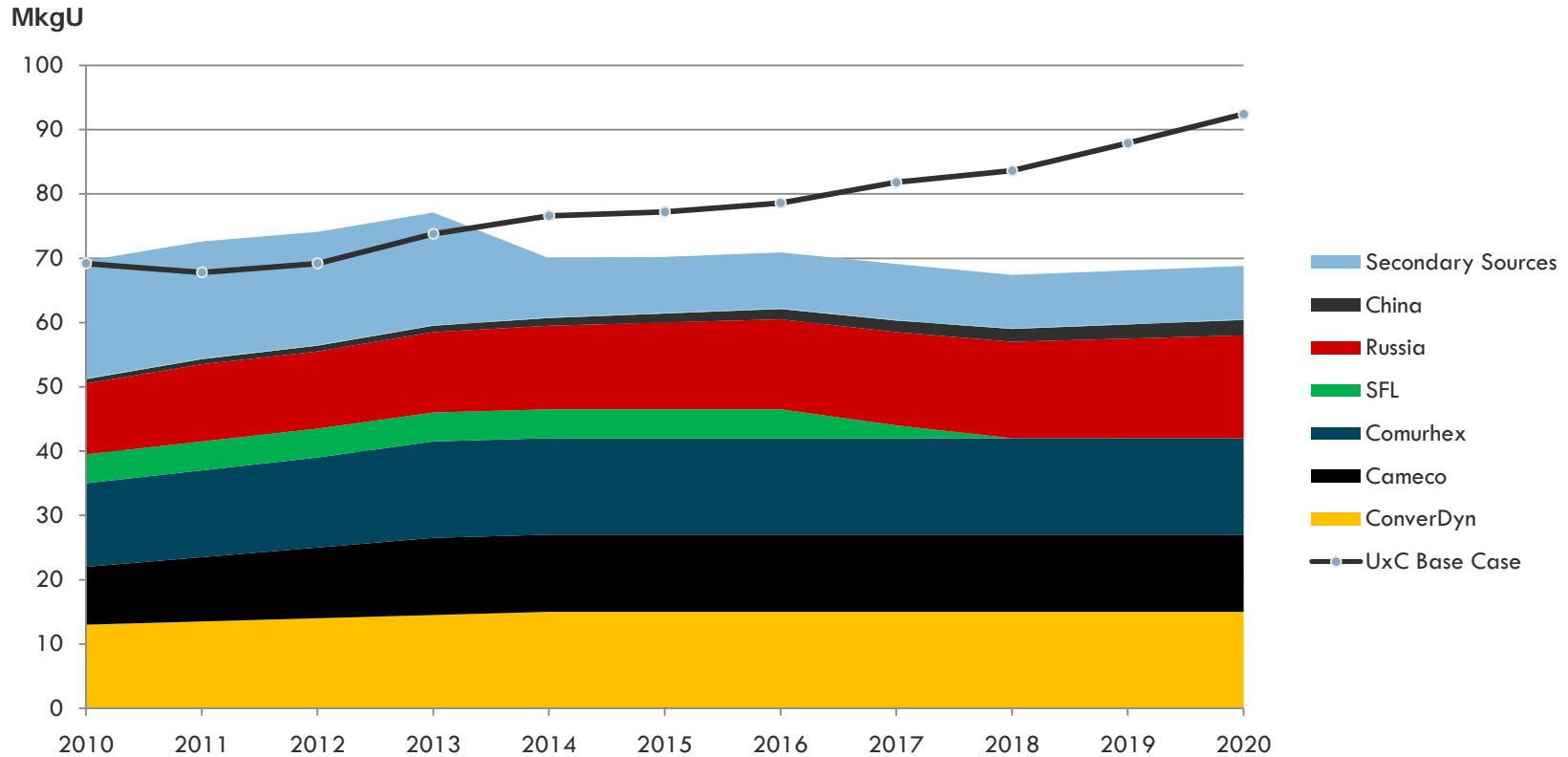
Metropolis plant investment:



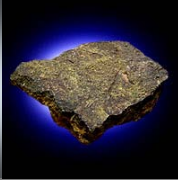
Capital improvements leading to more reliable production at improved rates



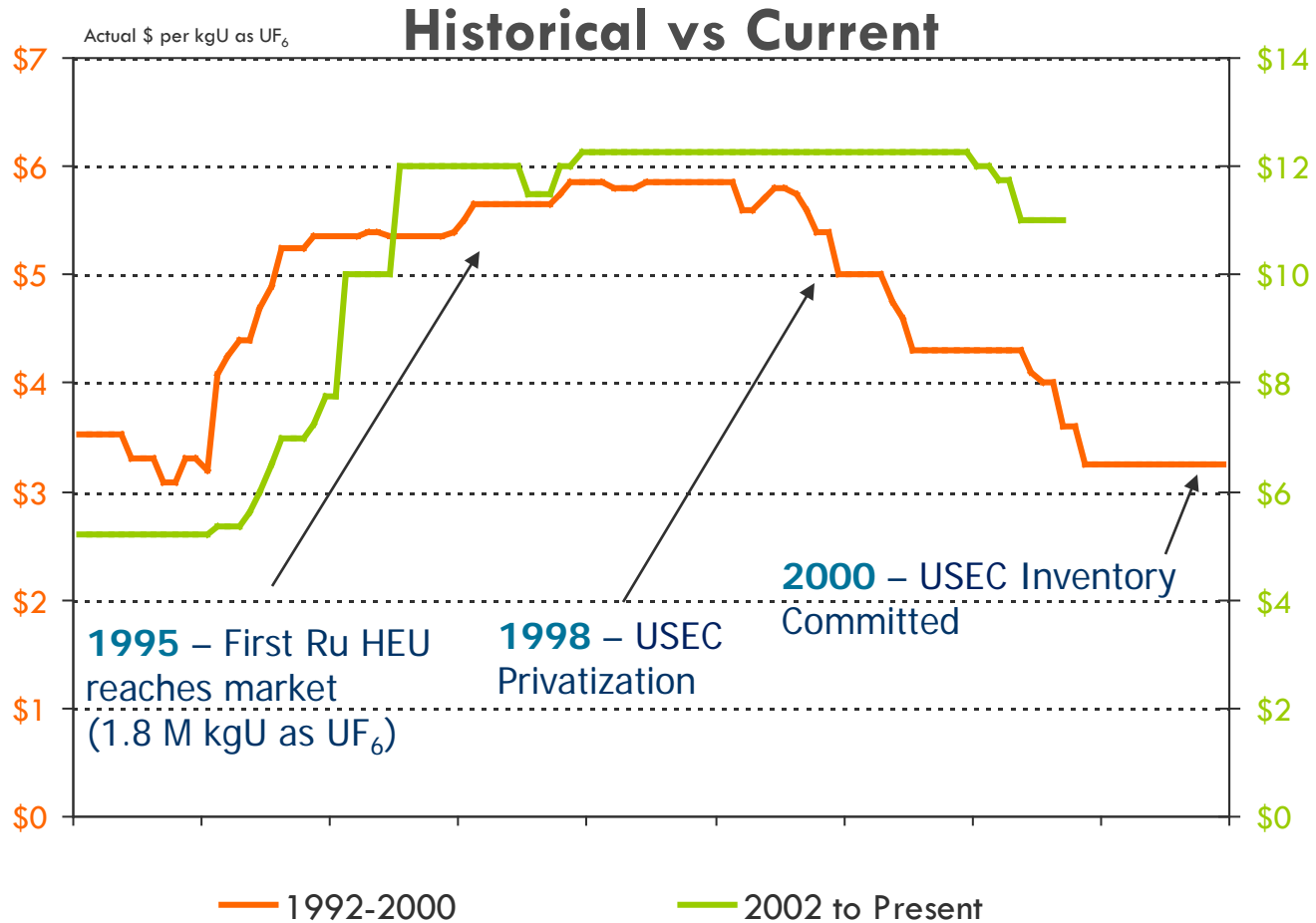
What do the supply and demand fundamentals suggest:



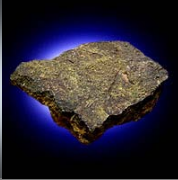
- Supply and Demand is just in balance
- Supply gap imminent



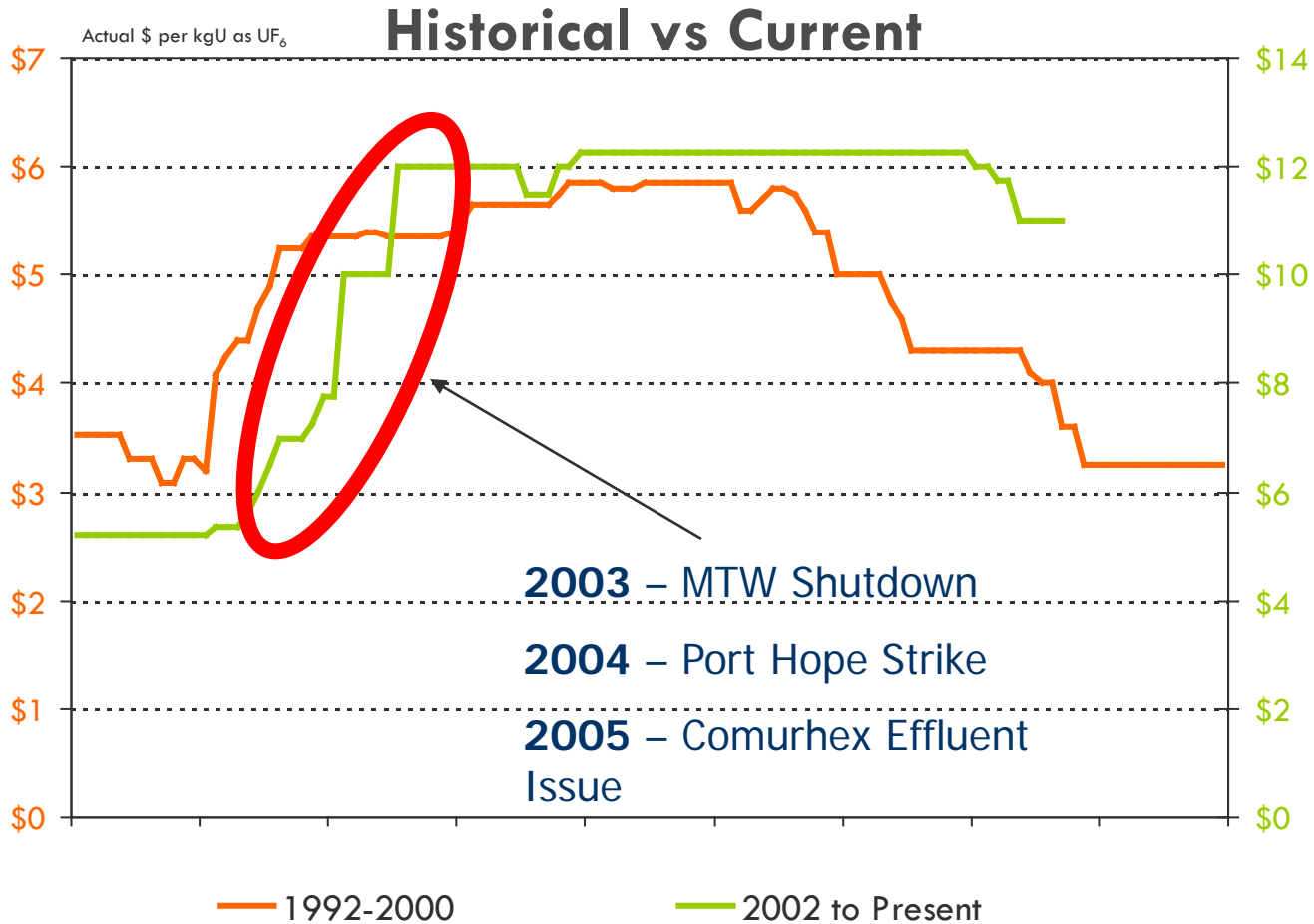
Conversion market movement – Phase 1:



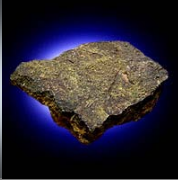
Large scale entry of secondary supplies



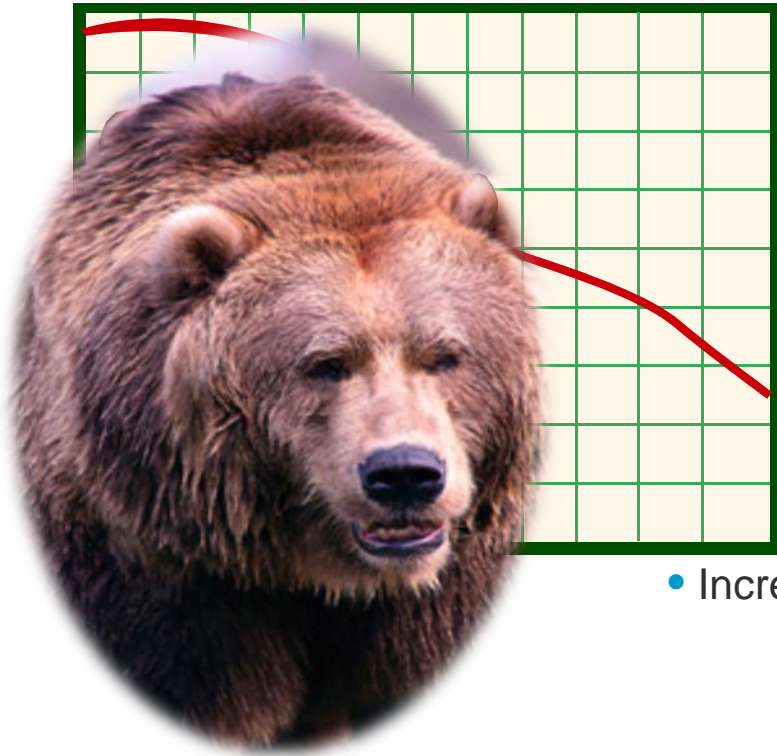
Conversion market movement – Phase 2:



Multiple incidents at primary suppliers



Russian supply:

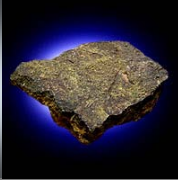


Effect of Russian HEU Supply on Conversion Industry: **PAST** –

- Reduced demand for primary conversion
- Reduced capital investment by primary converters
 - BNFL announced plan to exit
 - One way trade

Effect of Russian HEU and Commercial Supply on Conversion Industry: **PRESENT** –

- Increased HEU uncertainty post 2013 – if, when, how much?
 - Domenici Amendment impact
- Russian penetration of current and future markets
 - Ex: Japan, China, India, US
- Uncertainty increases risk of capital investment by primary converters
 - Still one way trade



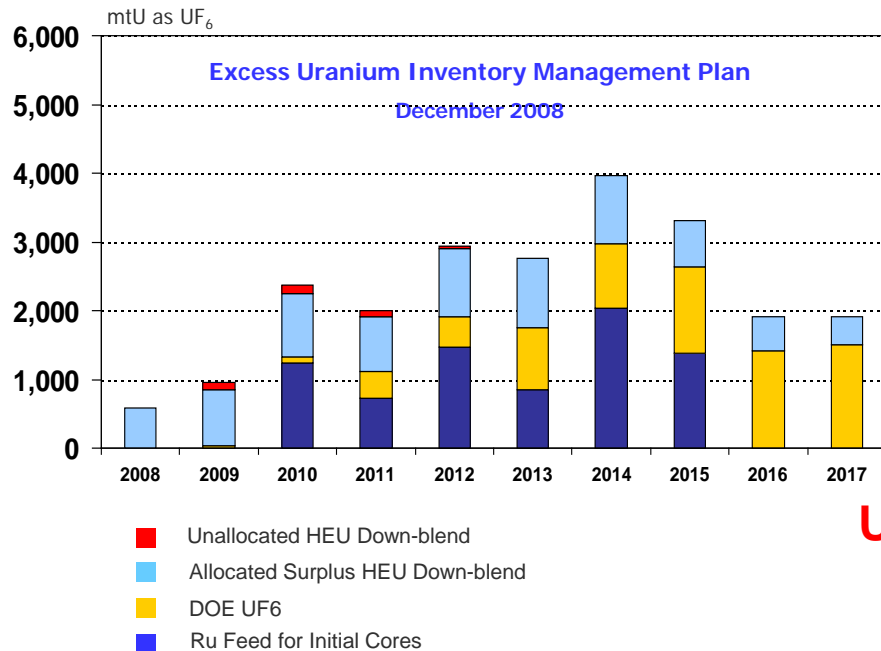
US government secondary supply:

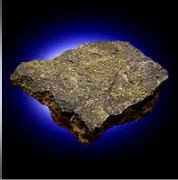
US Government Secondary Supply Effect on Conversion Industry: **PAST** –

- Further reduction in primary conversion supply
 - Primary converters slash capital spending
 - Sub-optimized production
- Transfer of 50 mt HEU and 7,000 mt nU from DOE

US Government Secondary Supply Effect on Conversion Industry: **PRESENT** –

- “Uranium Dumping” affects market
- Inventory sales will have adverse material impact on US fuel cycle industry
- Negative incentive for needed capital investment by converters
 - Jeopardizes growth in conversion supply
 - Current DOE nU plans???





Supply disruptions:

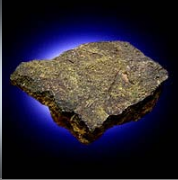
Supply Disruptions Effect on Conversion Industry: **PAST** –

- Demonstrated that primary production is fragile
 - Depletion of inventories
- Supplier incidents raised market awareness of need for capital improvements



Supply Disruptions Effect on Conversion Industry: **PRESENT** –

- Inventories held as UF₆
 - Ample supply
- Some market recognition of need for capital improvements
- Insufficient incentives offered by market for supply growth



Capacity addition or new build:

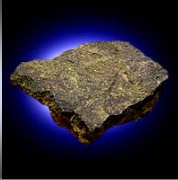


Conversion Expansion: *Maintain Existing Plants* –

- Increased capital investment for maintenance reliability and performance improvements
 - Added staff and management positions
 - Some support through direct customer participation

Conversion Expansion: *New Build* –

- Stronger market signals needed
- Shared risk and margin protection
- Government intentions must be clear and firm



Converter's challenge:

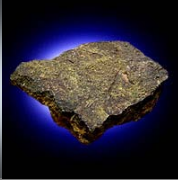
- Supply / demand analysis supports more conversion needed to meet uranium and SWU requirements for planned reactors
- Capacity expansion is not feasible at current market prices

Uncertainty factors:

- Timing and financing of new reactors
- Impact of China and India growth and sourcing strategy
- Secondary supply sources
 - Government actions
- Cost and access to raw materials
- Political policy and environmental regulation
- Russian strategy and continuance of market restrictions



Better understanding of supply/demand factors is needed



Metropolis Works Accreditations

ISO 9001 Certification

Certificate issued September 2009

Process has improved documentation and issue analysis

Internal audits for all products quarterly

Recertification every three years

Responsible Care (RC) 14001 Certification

Certificate issued June 2009

Ensures plant processes are designed to minimize injuries, pollution and risk

Certificate recognized by the American Chemistry Council