



# METALLIC GROUP

OF COMPANIES



A collaboration of leading exploration companies focused in politically stable districts with the potential for world-class deposits



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#### **Metallic Minerals:**

Scott Petsel, P.Geol, is the Qualified Person under NI 43-101 who has reviewed and approved the technical information contained in this presentation

#### **Group Ten Metals and Granite Creek Copper:**

The Qualified Person under NI 43-101 who has reviewed and approved the technical information contained in this presentation are:

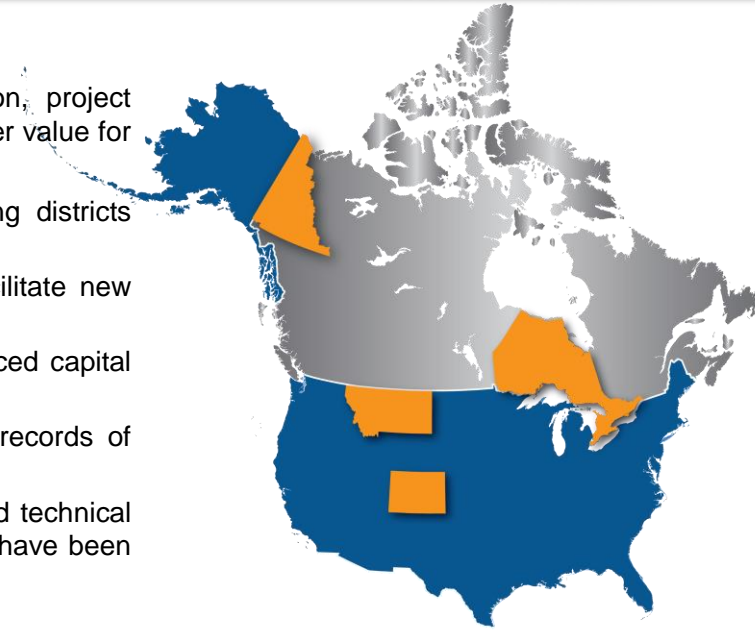
Mike Ostenson, P.Geol. (Montana)

Debbie James, P.Geol. (Yukon, Ontario, BC and Alaska projects)

## The Metallic Group Philosophy and Approach to Business

To leverage our combined decades of experience in successful mineral exploration, project permitting, community relations, project finance, and capital markets to create shareholder value for member companies by executing the following value creating strategies:

- Strategically acquire large, brownfields land packages in highly prospective mining districts adjacent to established operating mines during the low parts of the metal price cycle;
- Apply a systematic approach to exploration focused on large-scale deposits to facilitate new discoveries and rapid advancement of resources in these proven brownfields districts;
- Focus on areas with existing infrastructure and shallow deposits that allow for reduced capital and operating costs along with rapid development timelines;
- Lead these initiatives with dedicated management teams that have proven track records of exploration and project development success in their target metals of focus;
- Metallic Group companies utilize shared resources for cost efficiency and specialized technical expertise with experienced corporate governance and management oversight which have been recognized for their environmental stewardship and community engagement.



Metallic Minerals is a leading explorer for high-grade silver and gold in Canada's Yukon Territory. The company's core Keno Silver Project is located in the historic, high-grade Keno Hill silver district, a region which has produced over 200 million ounces of silver and currently hosts one of the world's highest-grade silver resources at the adjacent Alexco Resources mines. Metallic Minerals is also building a portfolio of producing gold royalties in the Yukon's prolific Klondike Gold District.



Group Ten Metals is a leading explorer for platinum, palladium, nickel, copper and gold deposits in North America. The Company's holdings include its flagship Stillwater West PGE-Ni-Cu project adjacent to Sibanye-Stillwater's high-grade Pd-Pt mines in Montana, the Black Lake-Drayton Gold project in the Rainy River district of Ontario. And the Kluane PGE-Ni-Cu project adjacent to Nickel Creek Platinum's Wellgreen deposit in the Yukon Territory.



Granite Creek is a copper-focused exploration & development company in the Yukon's high-grade Minto Copper District adjacent to Pembridge Resources' high-grade Minto Cu-Au-Ag mine and the Carmacks Cu-Au project, where we see potential to develop 1+ Billion pound copper resources

# TRACK RECORD OF VALUE CREATION

## Strategic Acquisition, Resource Expansion and Project Advancement

### Past Projects by Metallic Group Team

Project	Original Discovery	Acquired	Price Cycle	Ownership Purchase	Current Stage	Reserve / Resource	Resource Growth	Investment / Purchase
Donlin	Placer Dome (Barrick)	2001	Gold Low	50% Barrick 50% NovaGold	Final Permitting	40 Moz Au	4x	\$1 billion
Galore	Rio Tinto	2003	Copper Low	50% Newmont 50% Teck	Permitting / Construction	12 B lbs Cu, 11 Moz Au, 200 Moz Ag	4x	\$1 billion
Ambler	Rio Tinto	2004	Zinc & Copper Low	50% Trilogy 50% South32	Feasibility / Permitting	11 B lbs Cu, 6 B lbs Zn, 100 Moz Ag, 1.5 Moz Au	3x	\$300 million

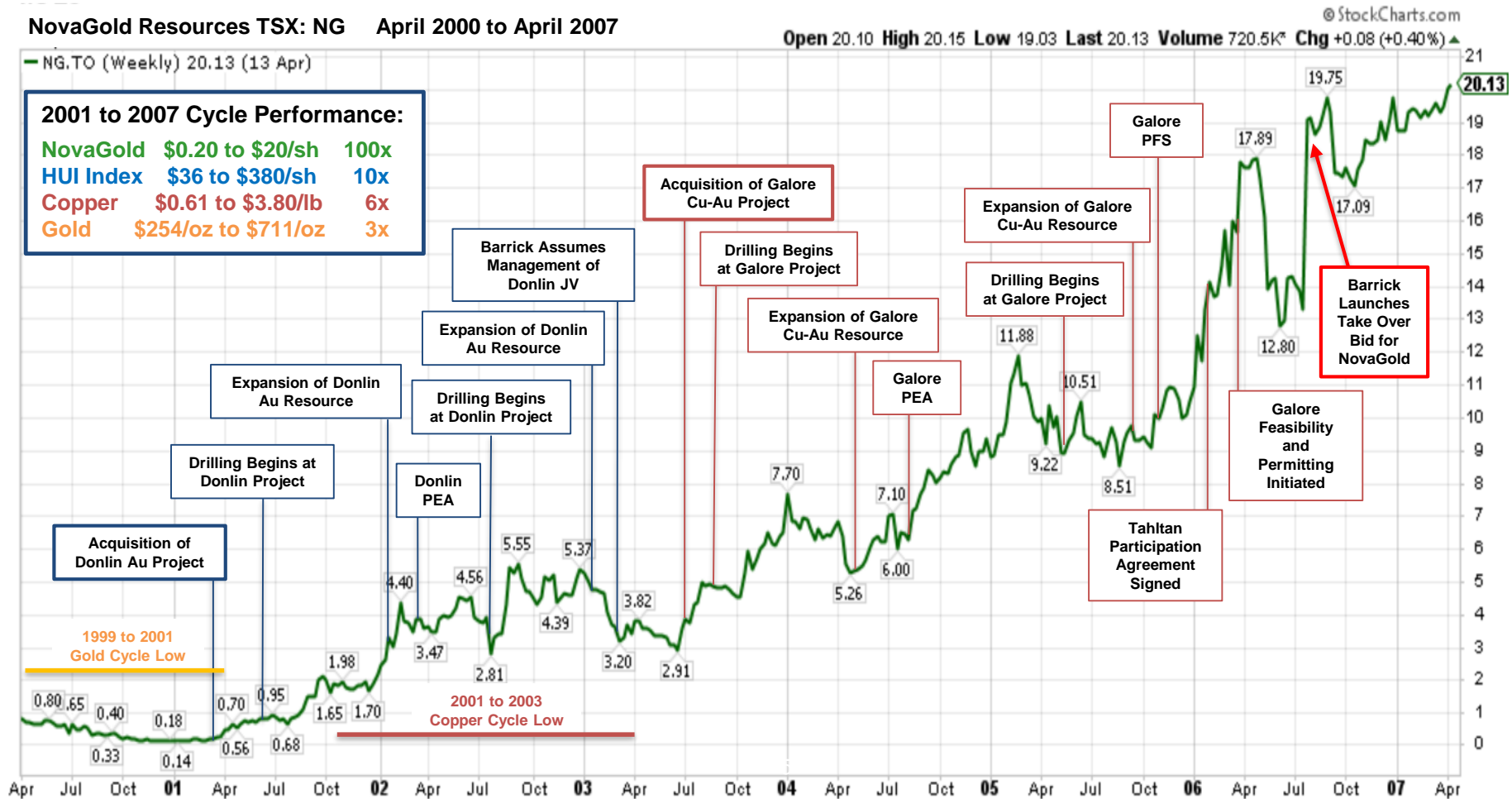
### Current Projects by Metallic Group Team

Project	Original Discovery	Acquired	Price Cycle	Ownership	Current Stage	Exploration Target / Potential
Keno Silver	UKHM	2016	Silver & Gold Low	100% MMG.V	Resource Definition and Targeting	+1 billion Oz Ag district
Stillwater	Cypress-Amax	2017	Platinum & Palladium Low	100% PGE.V	Resource Definition and Targeting	+10 Moz Oz Pt + Pd systems
Stu / Carmacks	UKHM	2018	Copper Low	100% GCX.V	Target Definition Drilling	+1 billion lb Cu & +1 Moz Au
La Plata	Rio Tinto / Freeport	2019	Silver & Copper Low	100% MMG.V	Resource Definition and Targeting	+100 Moz Ag & +1 billion lbs Cu

# DONLIN CREEK CASE STUDY

## Example Value Creation at NovaGold Through Discovery, Resource Expansion and Project Advancement By the Metallic Group team

NovaGold Resources TSX: NG April 2000 to April 2007



## Veteran Management with Proven Track Record in Exploration and Mine Development

### **Greg Johnson – Metallic Group Founder and Chairman, CEO Metallic Minerals**

- 30+ years experience in exploration, development and financing of large-scale mining projects
- Broad capital markets experience, raising over \$650 million in project financing
- Co-founder of NovaGold, former President & CEO of Wellgreen Platinum and South American Silver, various exploration and management roles with Placer Dome (now Barrick Gold)
- Awarded PDAC's Thayer Lindsley Award for International Mineral Discovery of the 40 Moz Donlin gold deposit

### **Michael Rowley – Metallic Group Co-Founder, CEO Group Ten Metals**

- 25+ years executive experience in the exploration, mineral processing, and mine environmental industries
- Experience in all aspects of the exploration industry, including capital markets and operations
- Director of Bravada Gold, Granite Creek Copper, and Sierra Mountain Minerals

### **Tim Johnson – Metallic Group Co-Founder, CEO Granite Creek Copper**

- 25+ years experience in the mineral exploration industry ranging from grassroots prospecting to consulting company operation and public company management.
- Director and CEO of International Cobalt

### **Gregor Hamilton – Financial Advisor and Director**

- 20+ years of mining sector experience in investment banking, corporate finance, economic geology
- Capital markets expertise and global finance contacts for mining, M&A and corporate strategy
- Successful entrepreneur in mining, technology and agribusiness in Canada and South America

### **Tim Thiessen – Chief Financial Officer**

- 20+ years experience in both public & private company operations, including 15 years in mineral resources sector including with Metallic Minerals, Granite Creek Copper, Foran Mining, SnipGold and Aurcana;
- Former VP Finance for Endeavor Financial, and auditor for Deloitte's mining practice

### **Alicia Milne – Corporate Secretary**

- 20+ years of corporate secretarial & securities compliance experience with NYSE, TSX & TSX Venture listed companies, including Pretium Resources
- Member of the Governance Professionals of Canada, and Board Member of Directors of Women in Mining

### **Chris Ackerman – Sr Manager Corporate Communications**

- 15+ years of experience with TSX and TSX-V listed public companies, private industry and Yukon government
- Graduate of the UBC Faculty of Law, former Sr. Business Development Advisor with the Yukon Ministry of Economic Development, past senior corporate communications positions with Wellgreen Platinum

### **Strong Corporate & Technical Management**

The Metallic Group of Companies has attracted a highly qualified team with global experience in:

#### **Financing & Markets**

- Over \$1 billion in equity financing raised
- Global banking, evaluation and M&A expertise

#### **Management**

- Combined 100+ years of corporate and exploration management, with leading explorer/developers and majors

#### **Exploration and Development**

- Extensive, first-hand experience numerous top-tier mining districts
- Credited with the discovery and advancement of several major North American deposits

## World-Class Team with Expertise In Exploration, Development, Processing and CSR

### **Craig Bow, Ph.D. – Senior Technical Advisor**

- 40+ years experience in global exploration, mine geology, & project management, including exploration of the J-M Reef & advancement of the initial Stillwater Pd-Pt mine to production
- Recognized expert on global PGE-Ni-Cu systems, porphyry Cu-Au deposits, and broad-based exploration expertise
- Formerly part of the team responsible for multi-million-ounce Arctic Platinum partnership (Gold Fields/Outokumpu), former Exploration Mgr for Gold Fields, Sr. Technical positions for Cyprus Amax, Newcrest & AngloGold Ashanti

### **David Broughton, Ph.D. – Senior Technical Advisor**

- 30+ years experience in mineral exploration, including the discovery of two major mineral deposits with Ivanhoe Mines, including the Flatreef PGE-Ni-Cu deposit at Platreef, South Africa
- Co-awarded AME BC's 2016 Colin Spence Award for Excellence in Global Mineral Exploration (Flatreef) and PDAC's 2015 Thayer Lindsley Award for International Mineral Discovery (Kamoa)
- Formerly held senior exploration roles with Phelps Dodge, Freeport, and Cyprus Amax

### **Stuart Morris, P.Geo. – Senior Technical Advisor**

- 40+ years industry experience, focus in high-grade vein systems including Campbell Red Lake and Sunnyside Mines, as well as precious metals rich porphyry systems
- Formerly with NovaGold and NovaCopper (now Trilogy), Placer Dome (now Barrick), Echo Bay (now Kinross)
- Former Chief Geologist, Campbell Red Lake Mine for Placer Dome and Sunnyside Mine for Echo Bay

### **Scott Petsel, P.Geo. – Vice President Exploration**

- 30+ years of experience in global exploration, mine geology, project management and advancement
- Former Project Mgr, Ambler & Bornite projects, NovaCopper (now Trilogy Metals), Exploration Mgr, Galore Creek project and Sr Geologist, Donlin Gold project, NovaGold
- Sr Exploration positions with Placer Dome (now Barrick) & Echo Bay (now Kinross) in North America and internationally

### **Susan Craig, P.Geo. – Sr Advisor, Govt. & Community Relations**

- 25+ years experience on Yukon and BC based projects with permitting, First Nations and Government relations
- Current Director of Yukon Energy Corporation, Yukon Mineral Advisory Board and President of Yukon Chamber of Mines

### **Doug Warkentin, P.Eng. – Advisor, Processing & Metallurgy**

- 30+ years of experience in the mining and mineral processing industries
- Currently Senior Metallurgist at Kemetco Research Inc.
- Co-founder of Group Ten Metals and served on the Company's Board to July 2014

### **Harry Burgess, P.Eng. – Advisor, Mining & Mine Engineering**

- 40+ years of mine engineering and management experience including senior positions with Anglo-American and others in Zambia and South Africa
- Co-founder of Micon International Limited

## Building on a Proven Successful Model for Value Creation

- Highly successful explorationists formerly with leading explorer/developers NovaGold, Trilogy Metals, Wellgreen Platinum and Ivanhoe Mines, as well as larger producers including Placer Dome (now Barrick), Goldfields, and Stillwater Mining (now Sibanye);
- Credited with the discovery or expansion and advancement of major precious and base metal deposits in the region:
  - Donlin Creek, Alaska: M&I 40 Moz Au
  - Galore Creek, BC: M&I 9 B lbs Cu, 9 Moz Au & 100 Moz Ag
  - Wellgreen, Yukon: M&I 6 Moz PGM+Au, 3 B lbs Ni+Cu
- Bringing new geologic thinking and models to these brownfields districts with high-grade historic and current production;
- Focused on large-scale systems that have the potential to form Tier 1 assets, particularly large magmatic related systems, which are host to some of the world's largest metal deposits:
  - High-grade silver/gold districts with potential to host +1 billion ounces of silver and their associated magmatic/porphyry systems with potential for multi-billion pound base metal deposits
  - Magmatic platinum group metal districts with potential to host +10 million ounces platinum and palladium with billion pound nickel and copper deposits
  - Magmatic/porphyry copper districts with potential to host multi-billion pound copper and multi-million ounce gold and silver systems



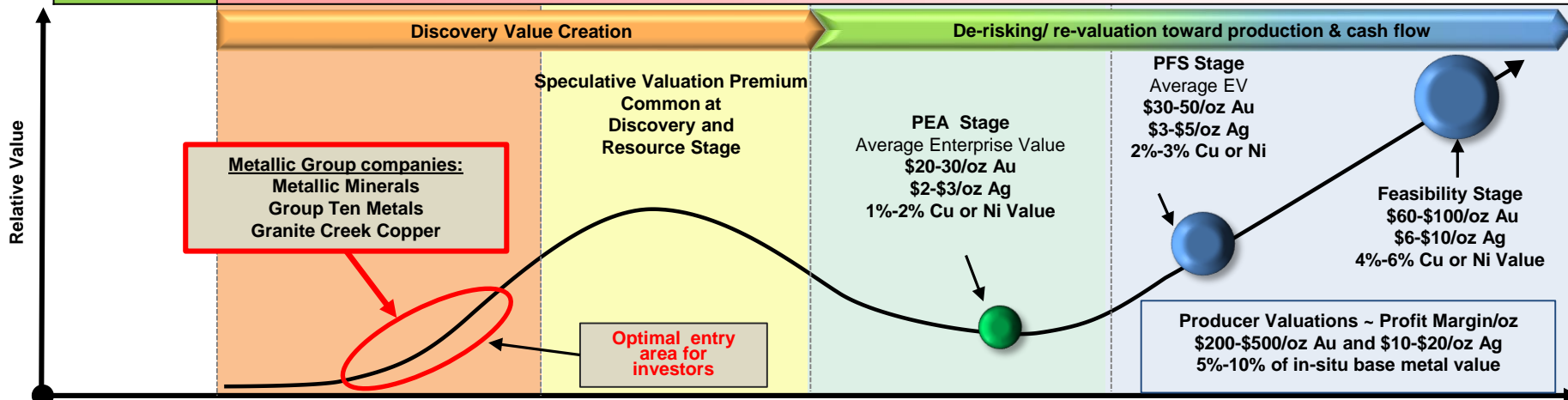
# TARGETS AND POTENTIAL



<b>Listings</b>	TSX.V: MMG   US OTC: MMNGF	TSX.V: PGE   OTCQB: PGEZF	TSX.V: GCX
<b>Year Launched</b>	2016	2017	2018
<b>Core assets &amp; Ownership</b>	<ul style="list-style-type: none"> <li>• Keno Silver Project, Yukon (100%)</li> <li>• McKay Hill Ag-Au-Pb-Zn-Cu, Yukon (100%)</li> <li>• Klondike Alluvial Gold Royalties</li> </ul>	<ul style="list-style-type: none"> <li>• Stillwater West Project PGE-Ni-Cu, Montana (100%)</li> <li>• Black Lake-Drayton Au Project, Ontario (100%)</li> <li>• Kluane PGE-Ni-Cu Project, Yukon (100%)</li> </ul>	<ul style="list-style-type: none"> <li>• Stu Copper-Gold Project, Yukon (100%)</li> </ul>
<b>District &amp; Potential</b>	<ul style="list-style-type: none"> <li>• 300Moz high-grade Ag production plus current resources &amp; base metals</li> <li>• Underexplored along trend and to depth</li> <li>• Adjoins Alexco Resource's high-grade mines</li> <li>• Gold royalties have begun production</li> </ul>	<ul style="list-style-type: none"> <li>• 100+Moz high-grade PGE production plus current reserves / resources along J-M Reef</li> <li>• Underexplored, bulk tonnage potential akin to Ivanhoe's Platreef PGE-Ni-Cu project</li> <li>• Adjoins high-grade Stillwater PGE mines</li> </ul>	<ul style="list-style-type: none"> <li>• 1 billion lbs copper production and current resources plus gold and silver</li> <li>• Underexplored, between high-grade Minto Mine and advanced Carmacks Copper project</li> <li>• Extensive exploration &amp; database</li> </ul>
<b>Exploration Targets</b>	<ul style="list-style-type: none"> <li>• 9 advanced drill-ready targets with 3 at step-out drilling stage and 6 at first drill stage</li> <li>• 10 earlier-stage targets being advanced to drill-ready status</li> </ul>	<ul style="list-style-type: none"> <li>• 5 advanced drill-ready targets with 3 at initial resource delineation stage</li> <li>• 9 large-scale, earlier-stage targets being advanced to first-phase drilling stage</li> </ul>	<ul style="list-style-type: none"> <li>• 4 drill-ready target areas with 2 at step-out drilling stage and 2 at first drill stage</li> <li>• 6 large-scale, earlier-stage targets being advanced to first-phase drilling</li> </ul>
<b>Geologic Model</b>	1+ Billion Oz Silver, Coeur d'Alene District, Idaho, USA	10+ Million Oz Platreef PGE-Ni-Cu Deposits, South Africa	1 Billion lb Cu, 1 Moz Au Carmacks Copper District, Yukon Territory, Canada
<b>Website</b>	<a href="http://www.metallic-minerals.com">www.metallic-minerals.com</a>	<a href="http://www.grouptenmetals.com">www.grouptenmetals.com</a>	<a href="http://www.gccopper.com">www.gccopper.com</a>

# RESOURCE COMPANY DEVELOPMENT STAGES & VALUE CREATION

Stage	Discovery	Resource	Early Development	Advanced Development
Studies	Discovery ----->	Resource estimates ----->	PEA ----->	PFS -----> Feasibility Study
Financing	Equity -----> Equity + debt + alternative sources (streams, off take, asset sale)			
	\$1 to \$10 M ----->	\$5 - 20 M ----->	\$10 - 25 M ----->	\$25 - \$100 M +
Key Mgmt.	Geologists -----> Geologists / Engineers ----->		Geologists/Engineers /Finance /Operations	
Risk Profile	High risk -----> High-Mod risk -----> Moderate risk-----> Mod-Low risk			
	Exploration uncertainty - testing size & grade ----->		Technical uncertainty -engineering/permitting/financing	

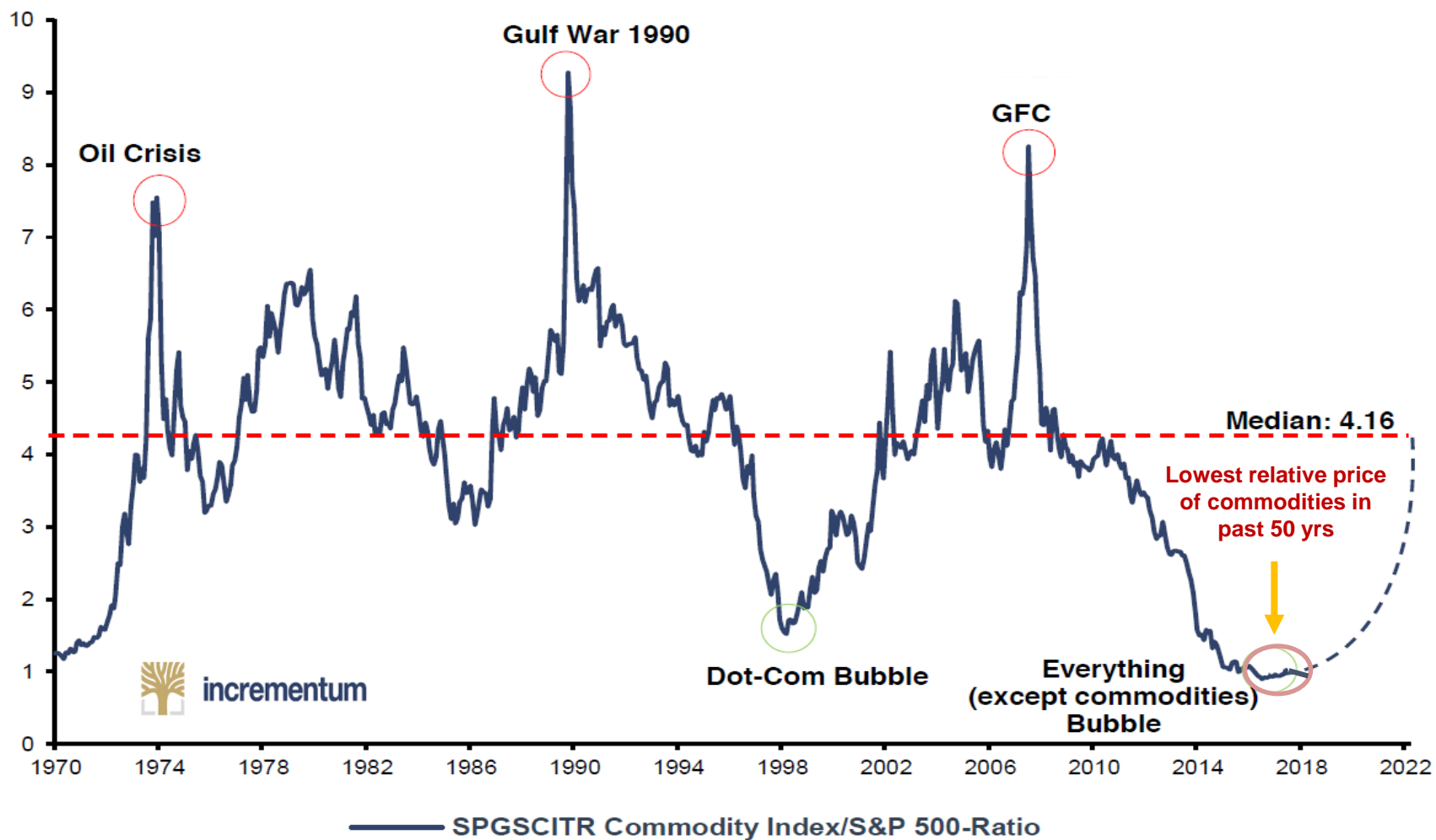


Time	1-3 years proof of concept -----> 2-3 years for drilling --> 3-5 years from PEA to Feasibility Study
Investors	Early entry investors and small institutions -----> Larger institutional investors Higher risk looking for higher returns -----> Reduced risk looking for incremental returns

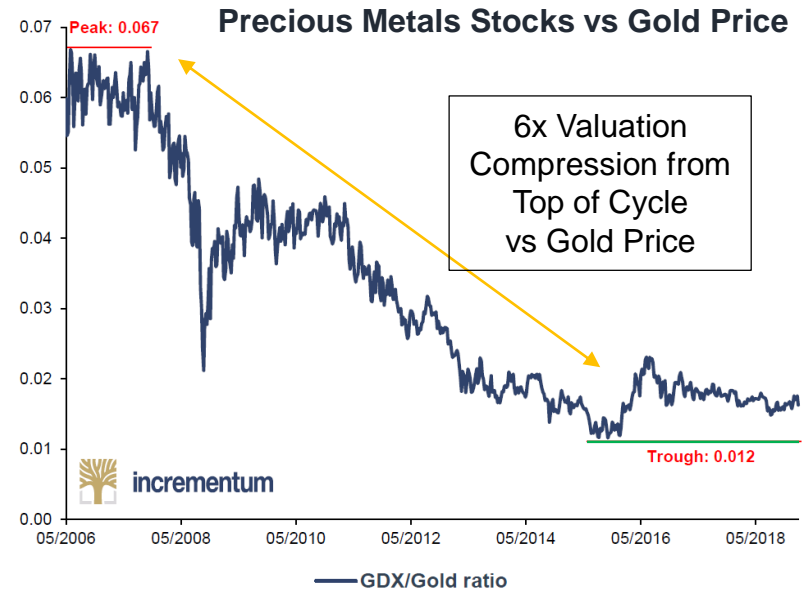
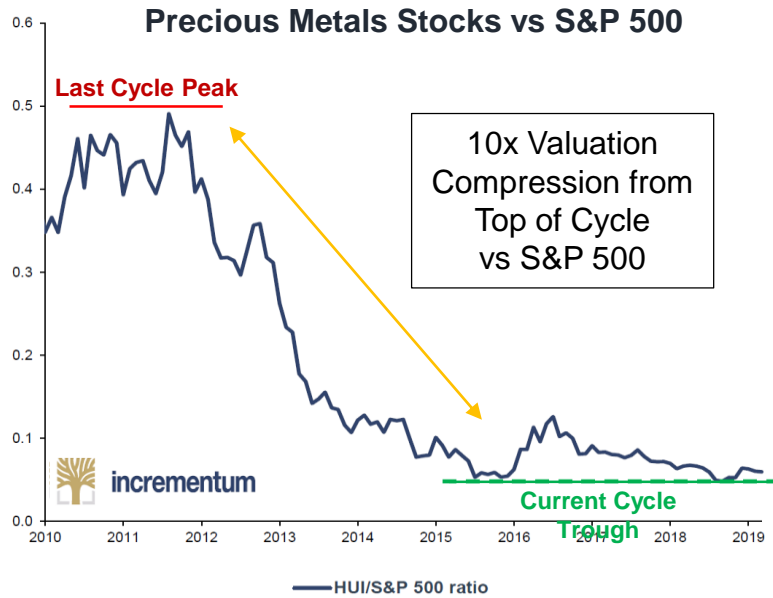
Based on Canaccord Genuity Junior Mining Weekly and Company estimates

# RELATIVE VALUE OF COMMODITIES VS GENERAL MARKET EQUITIES

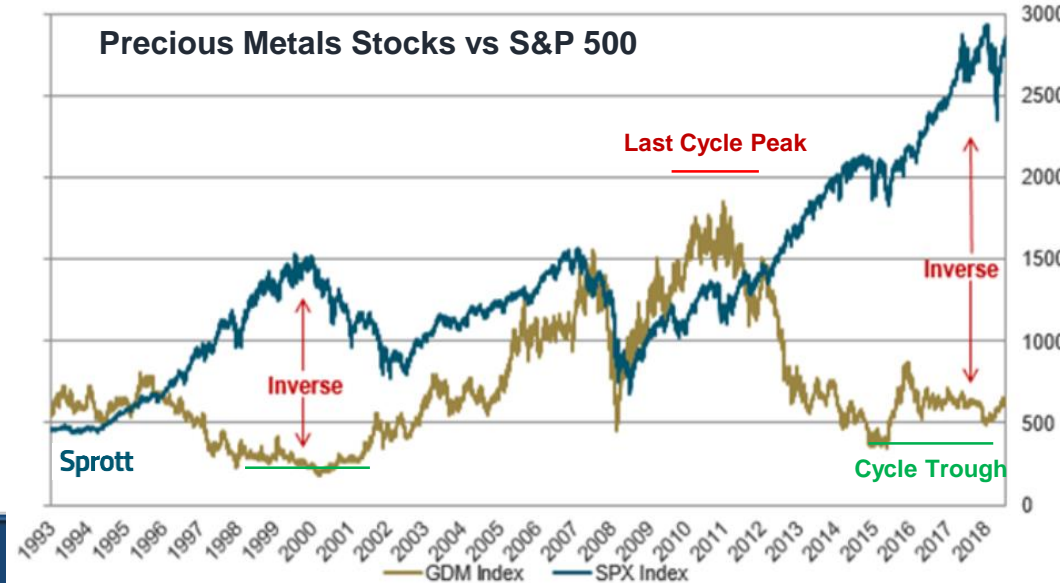
GSCI (TR) / S&P 500 ratio: shares expensive, commodities cheap



# Relative Value of Gold and Silver Stocks vs General Market Equities and Gold

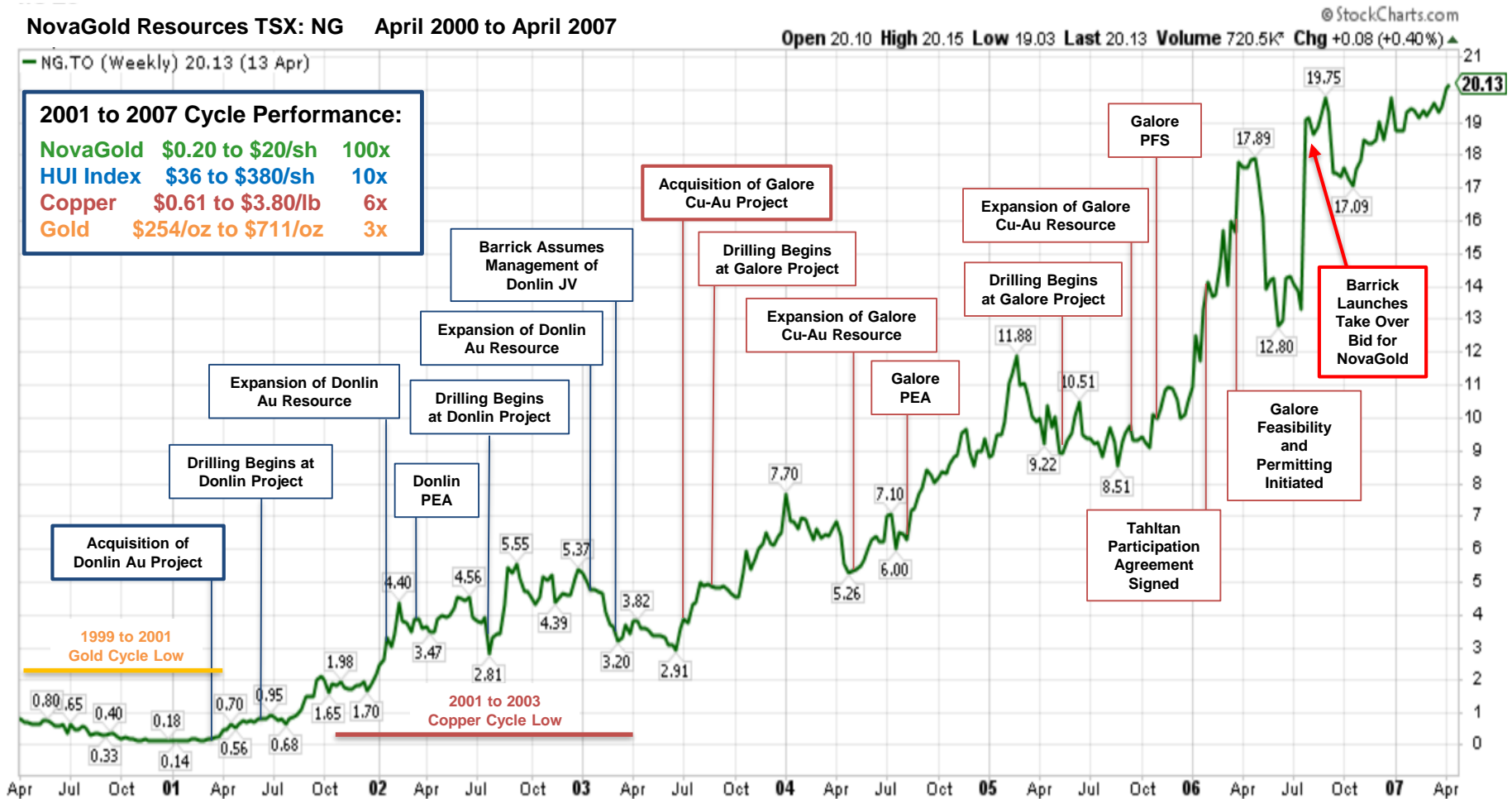


Sources:  
Bloomberg, Incrementum,  
Sprott



## Example Value Creation Through Discovery, Resource Expansion and Project Advancement During a Precious and Base Metal Bull Market Cycle

NovaGold Resources TSX: NG April 2000 to April 2007





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