

Hatch / Rio Tinto AP60

Leadership and health and safety culture



Safety Share

- Ice fall



Aluminum Contributes to Solving some of the World's most Challenging Issues

- Lower GHG emissions through lighter vehicles and buildings and through its recyclability
- Bringing energy efficiency for cities and buildings in an energy constrained world
- Preserving food and medicines through its unique barrier properties



Innovation: an Essential Component of Making Aluminum a Sustainable Product

Hydropower / Technology Combination



Renewable energy

+

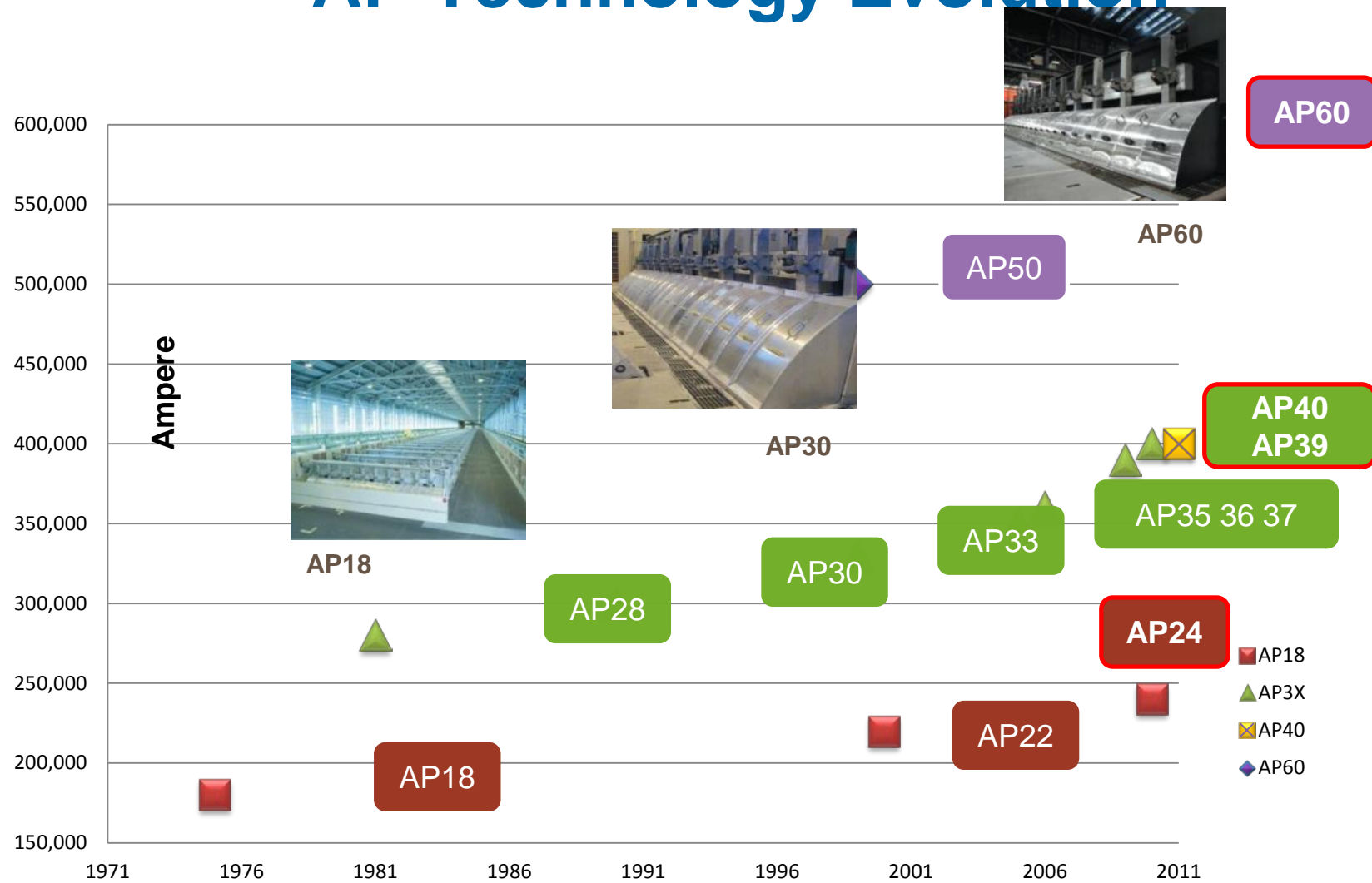
Latest, more energy
efficient
AP Technology™

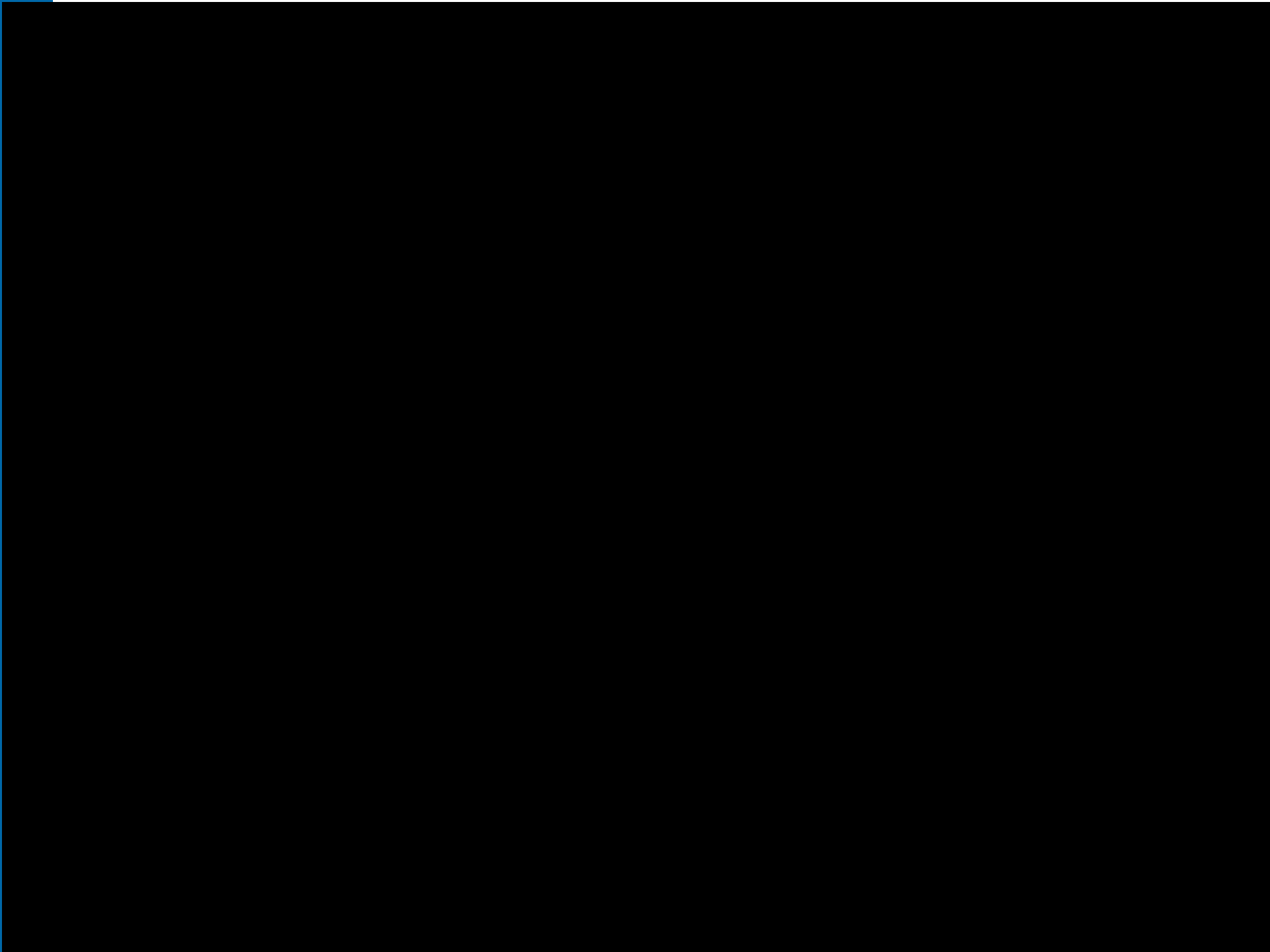
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World's cleanest
aluminium

Made-in-Canada ingot has a footprint nearly
5 times smaller than that produced in China.

AP Technology Evolution





**Strong team with purposes delivered superior results
Better than individual performance
 $1 + 1 > 2$**

Motto: “ RIGOR, COURAGE, and PASSION ”

AP60 Project Evolution Towards HSE

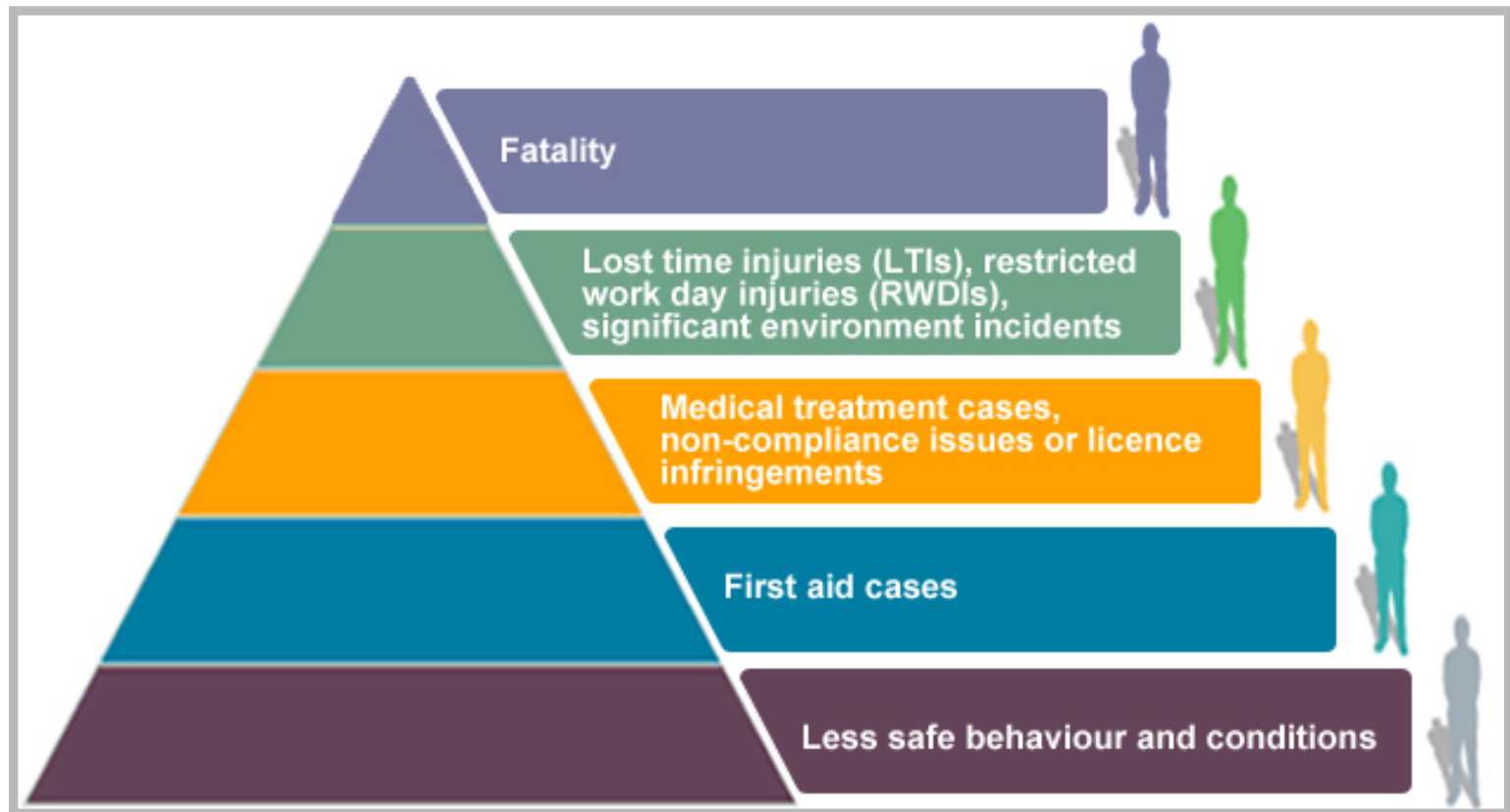
- Initial project approach based on Alcan and SLH experience
 - Improve Quebec 's best practices
 - No change in culture
- Revised approach:
 - Zero incident achievable
 - **Changing Quebec culture**
 - Stronger leadership and intense commitment by line management
 - Strong commitment from contractors and workers
 - Use best global practices and systems (RT)
 - Close monitoring of near-miss declaration frequency
 - Classification and investigation of near-miss and first-aid



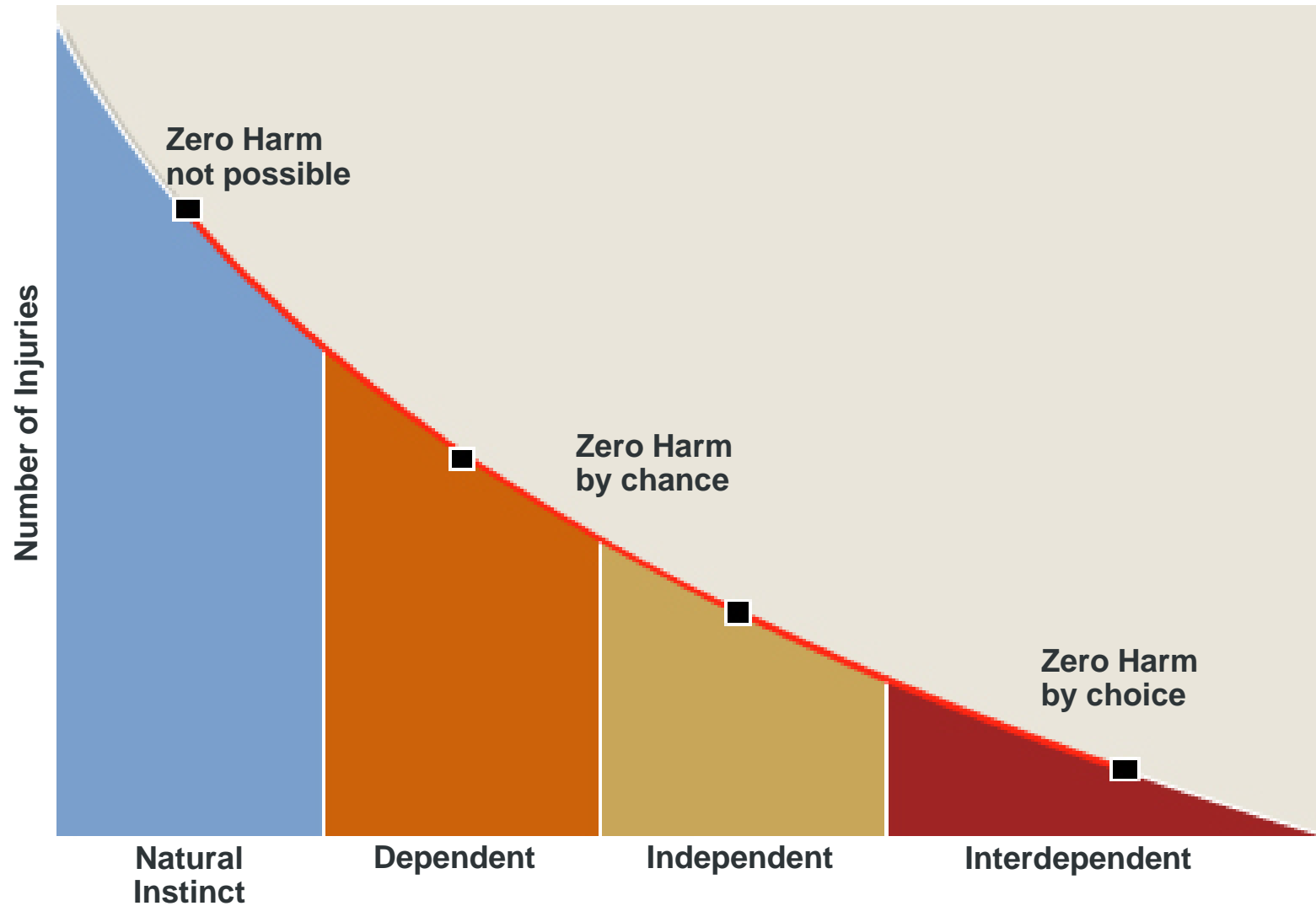
HSE interaction between an EPCM construction supervisor and a construction worker.
RTA – AP60 Project

The incident pyramid

- There is a higher likelihood of fatalities or significant incidents when less responsible behaviour is prevalent.



Stages of Zero Harm Culture



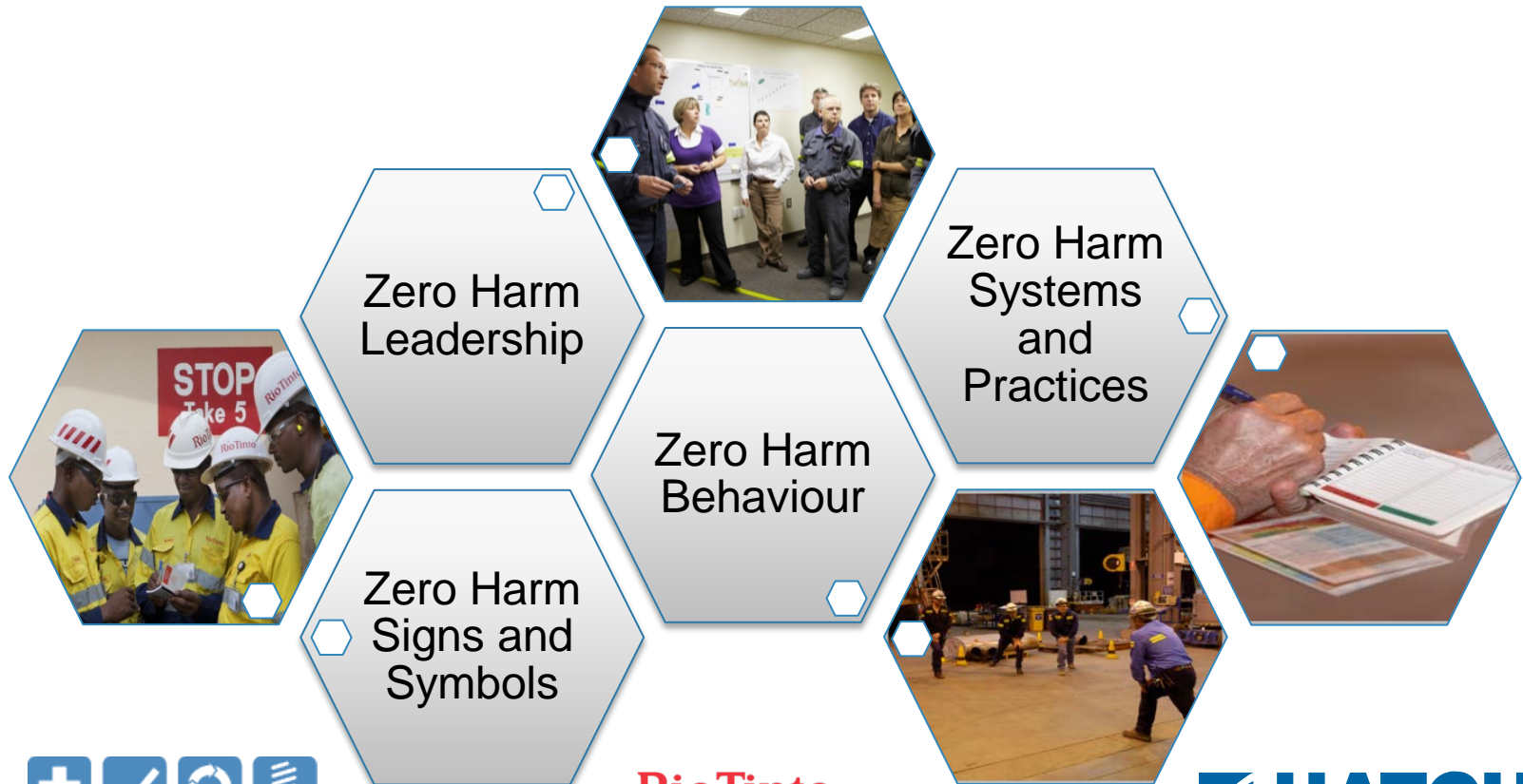
Discussion: Zero Harm share

- What safe or unsafe behaviour have you experienced recently?



Zero Harm Culture

- What is a Zero Harm culture?



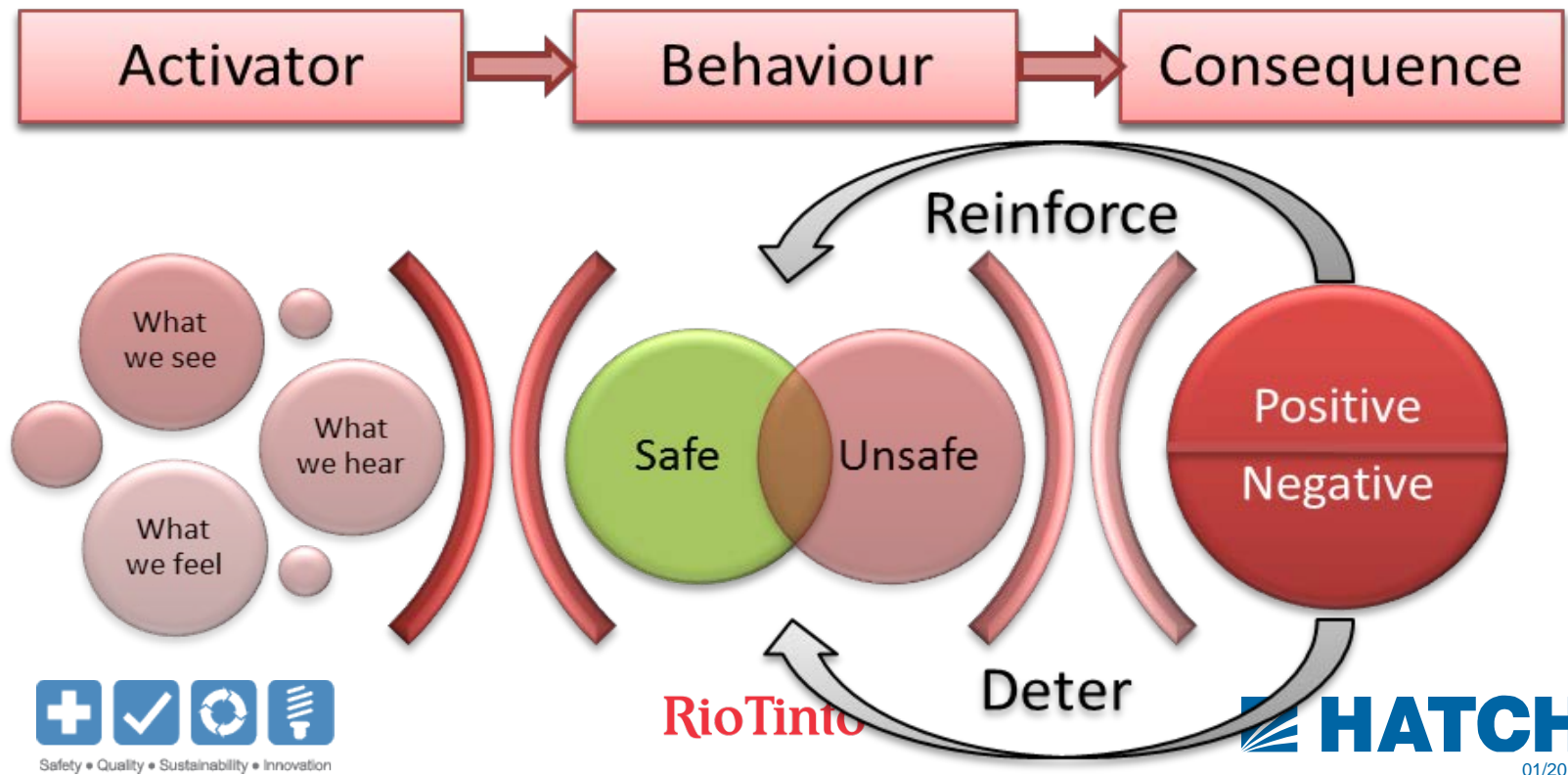
Purpose of Zero Harm Interactions

- Zero Harm interactions work to:
 - provide the opportunity for coaching to occur, reinforcing and encouraging safer, more responsible behaviours;
 - discourage less safe, at risk behaviours;
 - change people's perception of consequences; and
 - gain commitment to practice safer, more responsible behaviours.
- Zero Harm interactions are unique, because they are the only tool used to observe work **while it is occurring**.



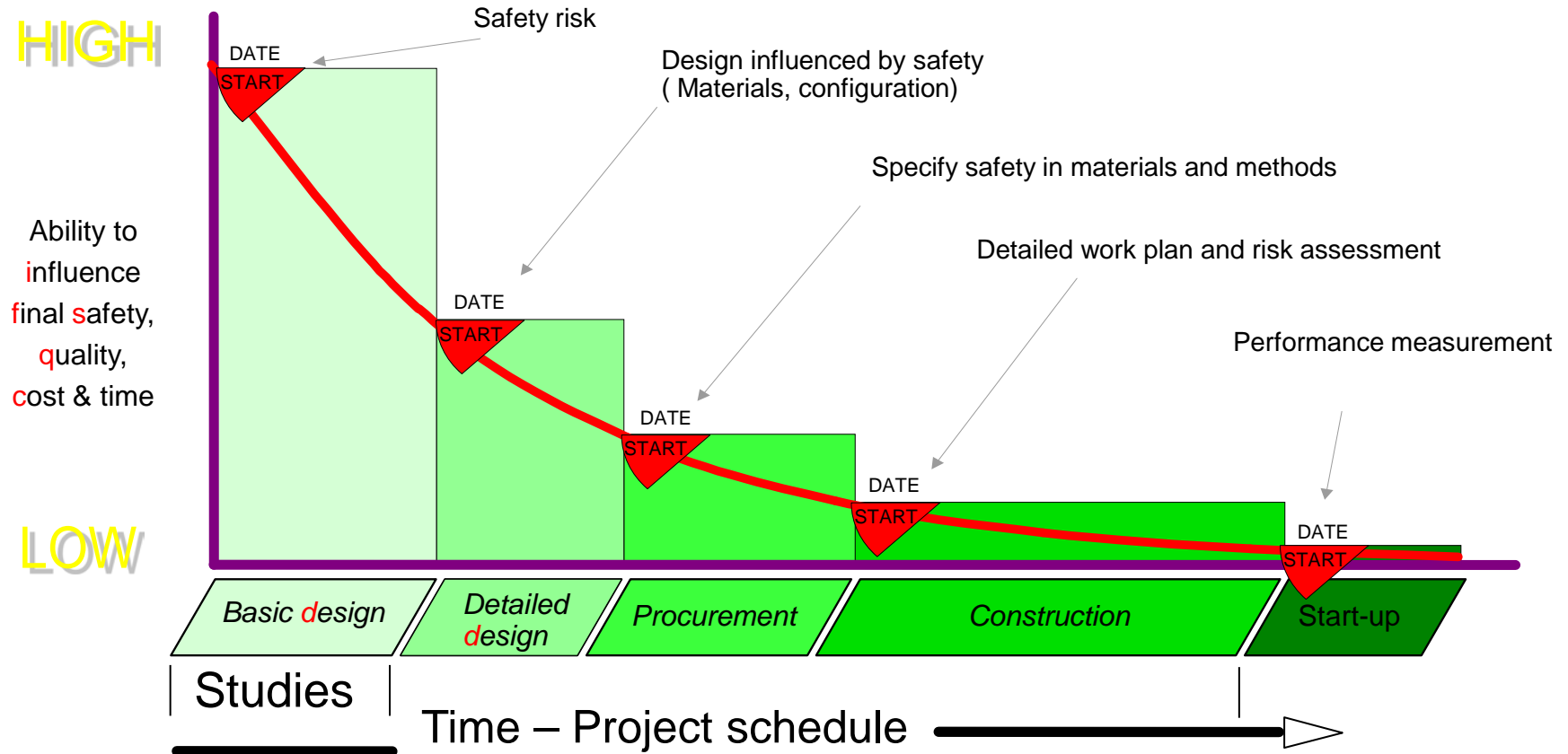
Influencing Zero Harm behaviour

- One way that Zero Harm interactions change people's behaviour is by identifying the triggers that make people choose at risk or risky behaviours, and then change the work environment to make it more convenient for people to work in a more responsible way.



Zero Harm

Understanding HSE risk early



Zero Harm (cont'd)

HSE Performance of AP60

- Better overall performance than Quebec's construction industry

	AIFR	LTIFR
AP60 Project	0.48	0.27
Quebec's construction industry (2003-2009 average)		23.5

