A Proposal for Canadian Pipeline Safety Indicators, and the Needed Transparency of Information to Support Them

Pipeline Safety TRUST

Credible.
Independent.
In the public interest.

Feedback on Proposed Indicators and Transparency

Duncan Noble
Pipeline Awareness Renfrew County
parcrenfrew.org

Agenda

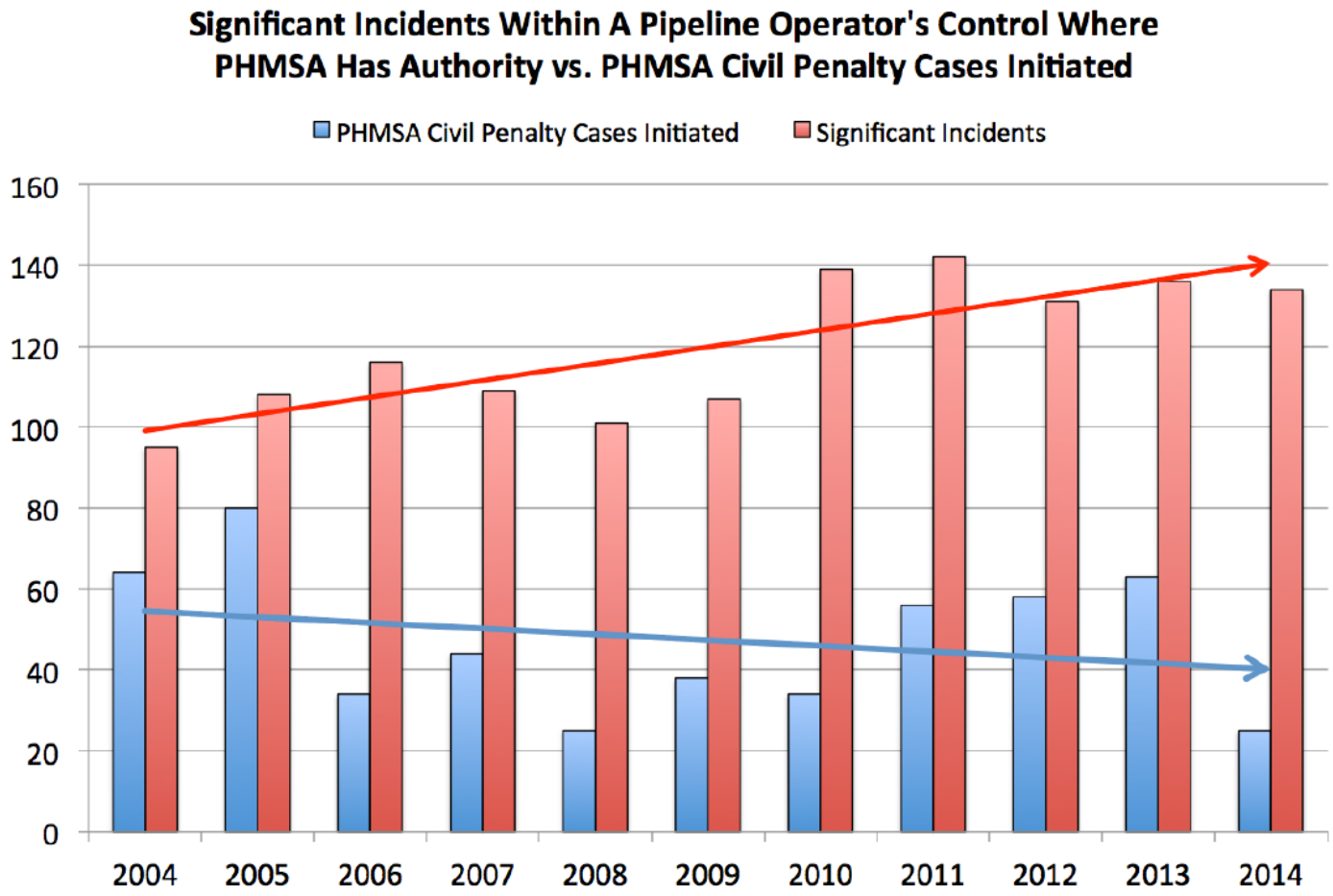
Indicators in Context

Assessment of Proposed Indicators

Comments on Proposed Indicators

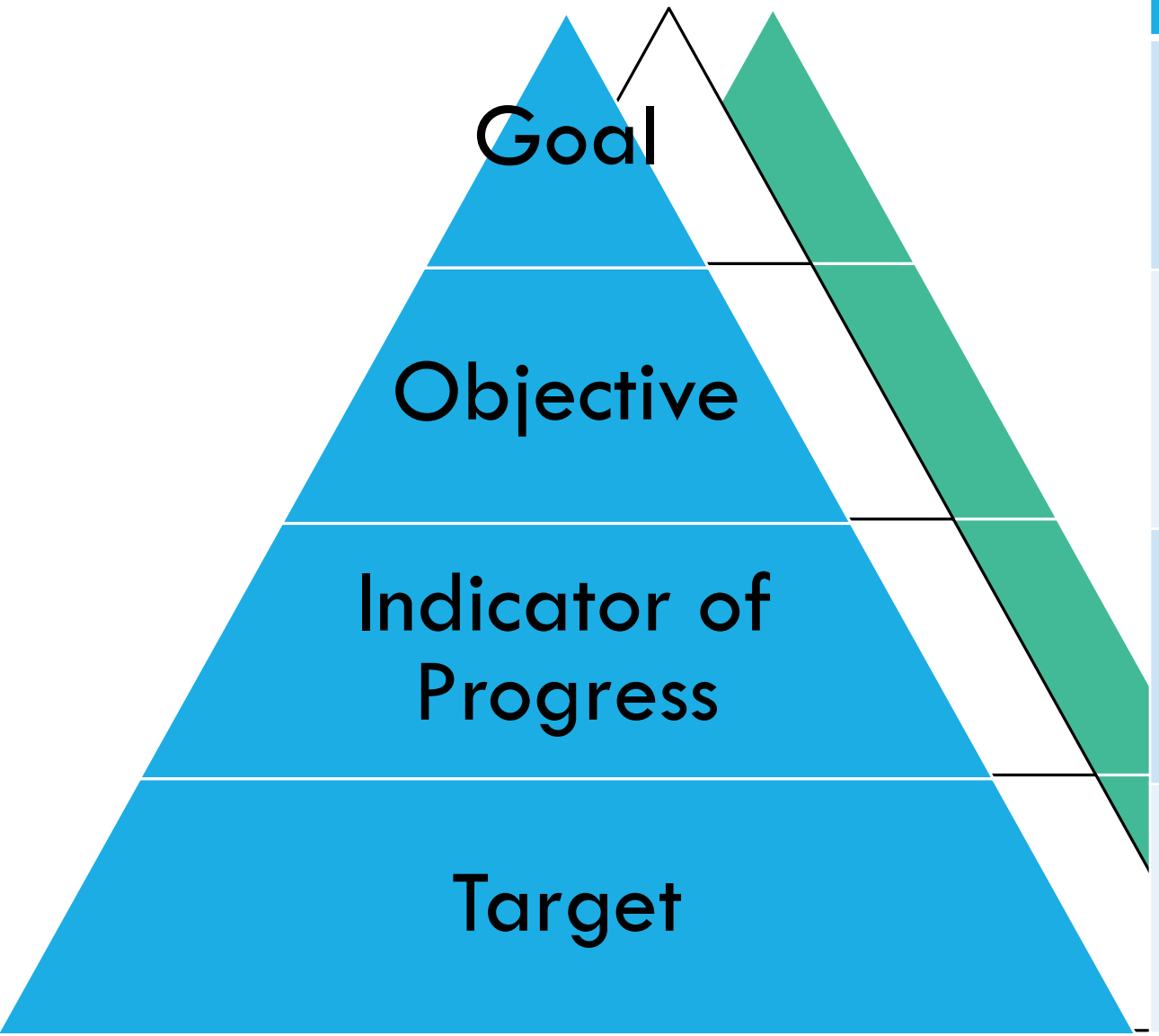
Recommendations

The Power of Indicators: Telling a Story



"… the story told by the indicators is probably more important than the indicators themselves."

- Redefining Progress: Lessons Learned



Definition	Example
Attribute of human activity that, if achieved, will contribute to "progress"	World Class Safety
A dimension within a goal that can be improved upon Also called a sub-goal	Zero Failures
A measurable quantity that can be used as a *proxy* to measure progress towards an objective	Overall Failures – Failures/km/Year
Level of performance sought and timeframe	Reduce Failures by 50% by 2025, from 20xx baseline

Proposed Indicator	Needs Assessment	Frequency	Consequence/ Impact	Other	Goal	Target
Causes of Failures Over Time	√			√		
Overall Failures – Failures/km/Year	√	√				
Failures that Impact People & Environment – Failures/km/Year	√	√	√			
Quantities of (Unintentionally) Released Products	√		√			
Monetary Impacts from Failures	√		√			
Near Misses		√				
Quantities of Product Transported	√			√		

Proposed Indicator	Comment
Causes of Failures Over Time	Include 1 year; potential early warning about trends Good example where access to the underlying data is important beyond the published indictors (e.g., by age; by technology type)
Overall Failures – Failures/km/Year	Concerned about "unplanned" language; focus should be released or not, rather than planned vs. unplanned Are all releases "harmful"? Like the low reporting threshold
Failures that Impact People & Environment – Failures/km/Year	All failures/releases impact the environment Severity scale vs. Yes/No; Threshold? Need disaggregated data
Quantities of (Unintentionally) Released Products	Concerned about "unintentional"
Monetary Impacts from Failures	Not everything can be monetized
[Other Impacts from Failures]	Include Environmental Impacts Include Social Impacts
Near Misses	Good forward looking indicator
Quantities of Product Transported	√

Recommendations – Indicators

Challenge: Indicators Must Support Continuous Improvement AND Accountability

Put Indicators in the Bigger Context (e.g., Goals, Targets, etc.)

Include Consequences / Impacts of Failures

- Include Environmental Impacts
- Include Social Impacts

Local Specific Data and Easy to Use Maps are Essential

Trends are More Important than a Single Data Point

To promote Trust and Transparency, Access to the Underlying Data is Crucial

Keep the Audience(s) in Mind

For Complete and Accurate Data, It Must be Used (poorly used data is likely inaccurate)

Public Use Data Must be Convenient and Easy to Use → One Window Approach, One Map Approach

Recommendations – Evolution Process