



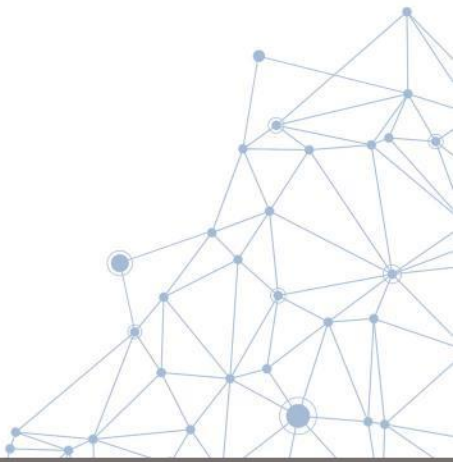
# CTEP Western Canada Pavement Workshop

Challenges in Delivering Quality from Different Perspectives

Consultant - Bryan Palsat, P.Eng.

February 7, 2018





# Why the disconnect?

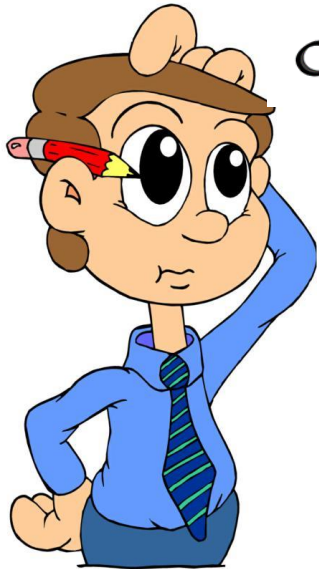
**Quality**



**Performance**



# Where's the disconnect?



**Agency /  
Owner**

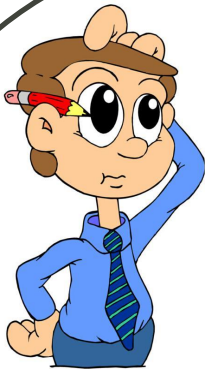


**Contractor**

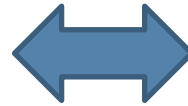


# Quality and Performance – an evolution.

## Agency / Owner



- Relied on Traditional Specifications
- Difficultly translating into performance.



## Contractor



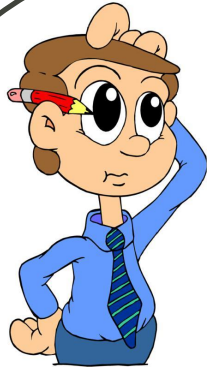
- Conform to Traditional Specifications
- Bottom Line (\$)



# Quality and Performance – an evolution.

Change in Industry – Evolving test procedures.

## Agency / Owner



- Relied less on Traditional Specifications AND
- Performance Specifications

## Contractor



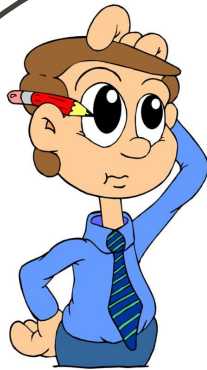
- Conform to Specifications
- Bottom Line (\$)



# Quality and Performance – an evolution.

## Change in Industry – Introduction of the P3 Model

### Agency / Owner



- Relied less on Traditional Specifications AND
- Performance Specifications

### Contractor

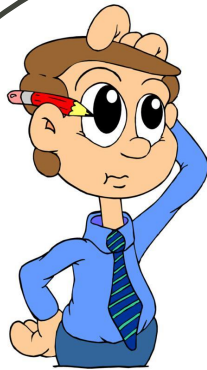
- Conform to Traditional Specifications
- Bottom Line (\$)
- AND
- Opportunity to Innovate



# Quality and Performance – an evolution.

## Change in Industry – Introduction of the P3 Model

### Agency / Owner



- Relied less on Traditional Specifications AND
- **Performance Specifications**

### Contractor



- Conform to Traditional Specifications
- Bottom Line (\$)
- AND
- **Opportunity to Innovate**

***Gave up some control.***

***Added accountability.***



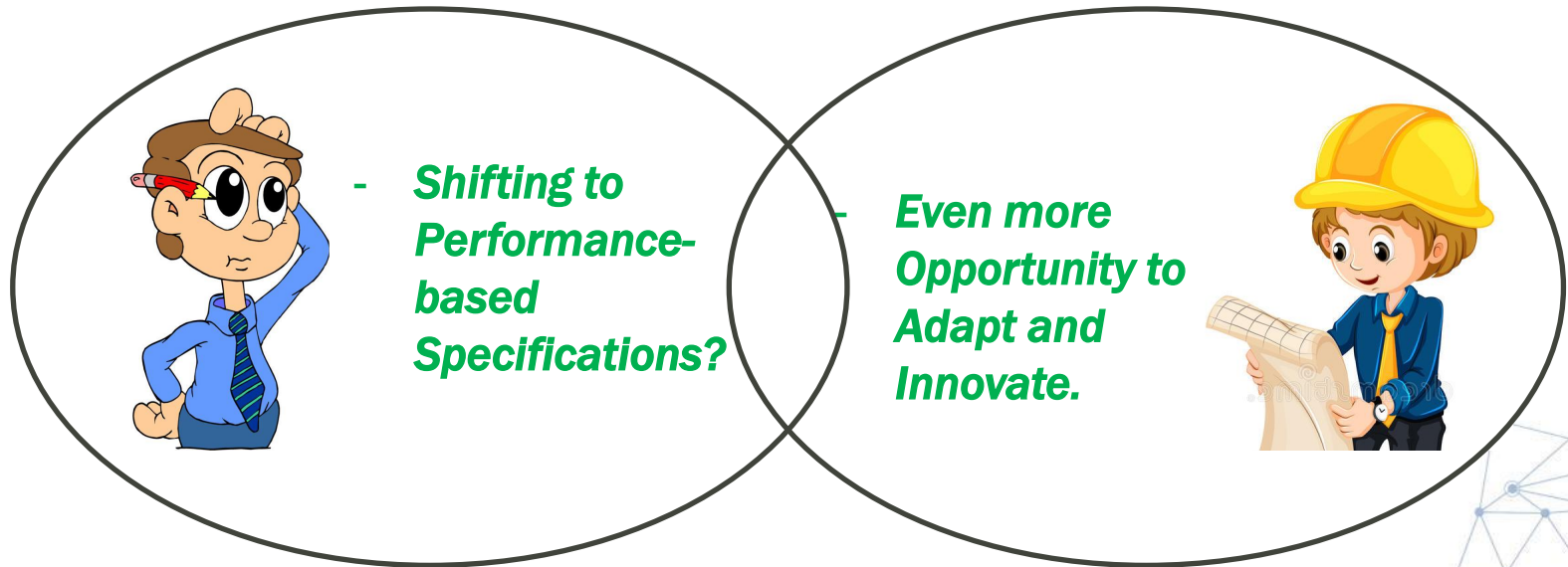


# Quality and Performance – an evolution.

Change in Industry – P3 Model / New testing procedures.

Agency / Owner

Contractor



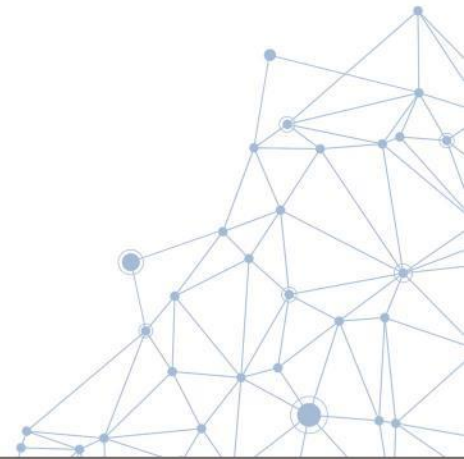
*Reduced risk to the owner.*

*More opportunity to the Contractor.*



# What's next?

- Needs tools to evaluate / proof products.
- New tests to better quantify performance.
- Improved procedures to ensure the end product meets the intent of the design.
- Shared risks – extended warranties.
- Better specifications?
- Balanced Mix Design?



**Thank-you**

