# Alternative Project Delivery Moolin Seminar -- 2015

Unique Circumstances:
Unique Creativity

(Dr.) Paul V. Perreault, P.E.

Northern AK, Arctic Construction since 1974



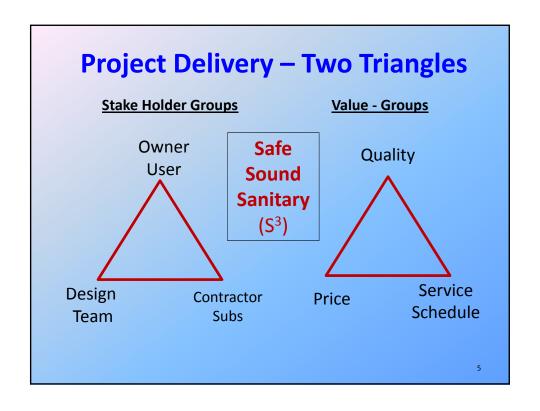
### pvpengineer@ak.net

November 18, 2015

# As a super language of the first of the firs

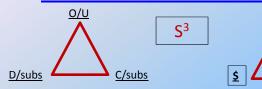








## A. Pilot -- TMELIO-PSB



TASKS

MATERIALS Step by Step: CSI Format

EQUIPMENT Expect to IMPORT

• LABOR

Varying Skills – Local QC

What You're Doing

INDIRECT

\$ @ Site, Unseen when Done

OVERHEAD

\$ Off Site, Home Office

SCHEDULE

6%, 10%, 15% Inflation/Yr.

BUDGET

\$ Constraints → Redesign

7

Sched.

### **TRANSPORTATION**





### Fairbanks:

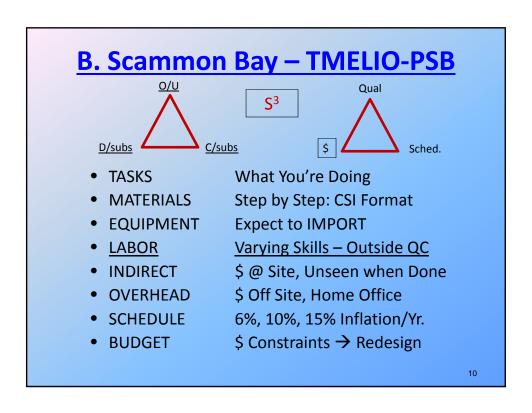
**Destination:** 

Schedule? Full-Load?

Runway Length? Width? Soft? Rutted?

8





# TRANSPORTATION? MATERIALS?



**SCM:** Depends: - Site by Site!

Hilly? Wet? Gravel? Silty Sand! Worse?

# TRANSPORTATION? MATERIALS? L&M → L, Frt, & M





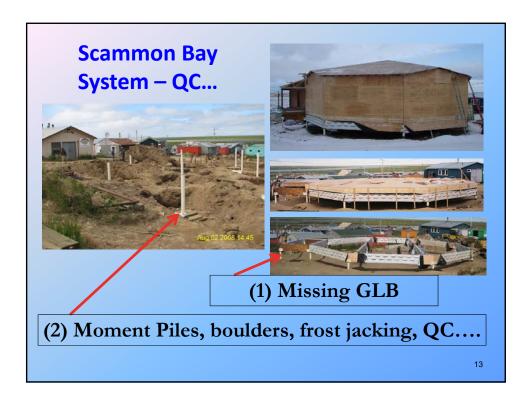
Eroded slough w/ mud?



**Destination SCM:** 

Schedule? 6-weeks late? L.D.= Sunk? Storm?

12





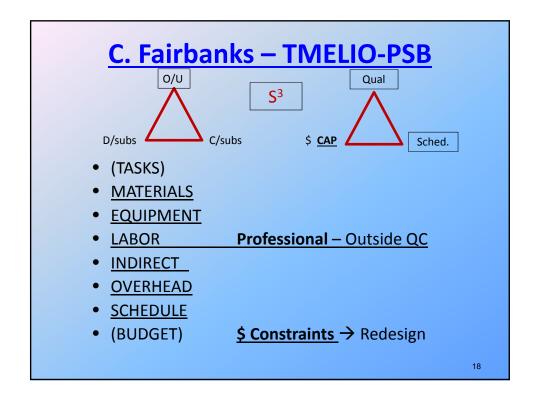


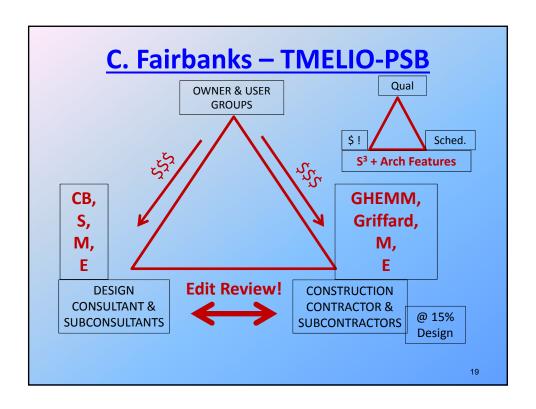
# **Quality Control Suggestions**Remote Construction

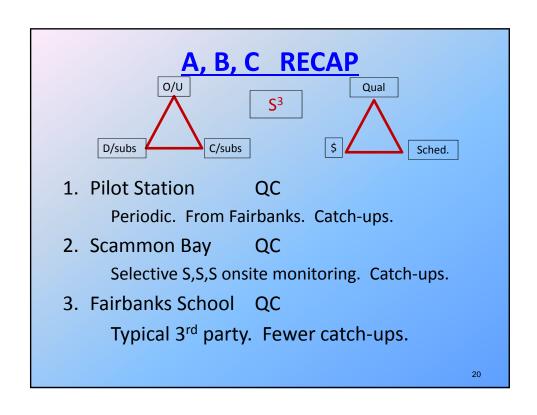
- Active Stakeholder Involvement throughout!
- 2. QC: Independent Reporter to Owner's Rep.
  - A. Enculturated but NOT from the region.
  - B. Expert for this construction.
  - C. CAN use 'my boss won't allow it.'
- 3. Frequently Daily? Weekly?
- 4. Alternative COMMO is vital.

.6









# Recap

- Pilot Station QC
   Periodic. From Fairbanks. Catch-up on issues.
- 2. Scammon Bay QC Selective S,S,S monitoring onsite.
- Fairbanks School QC
   Typical 3<sup>rd</sup> party.

21

