



*Best Practices in DB  
Procurement & Lessons  
Learned*

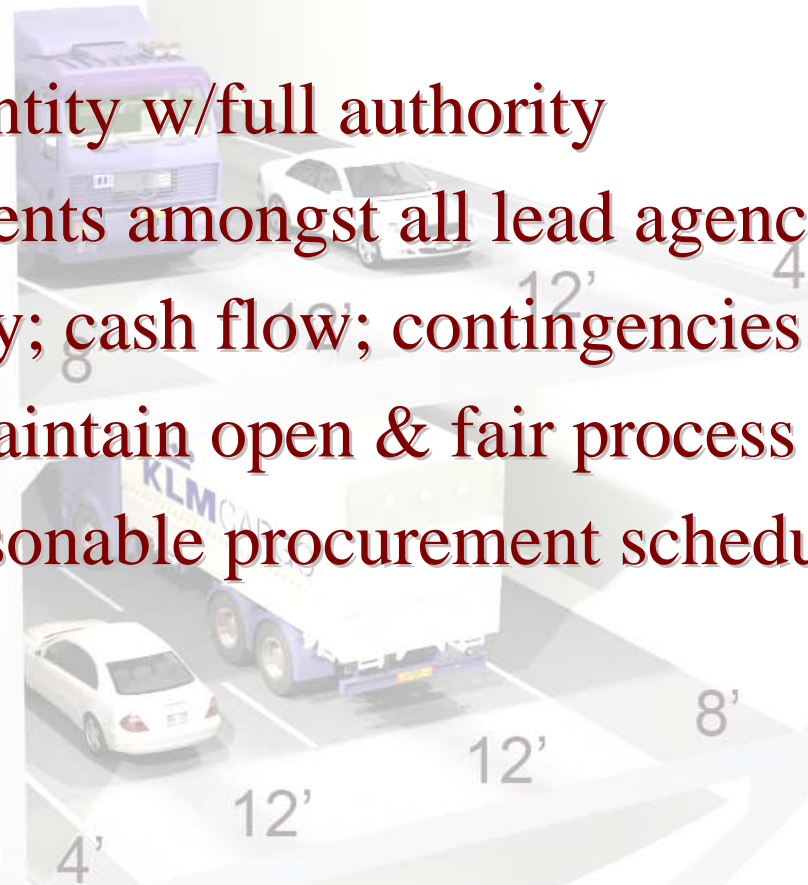
BY  
PARSONS  
BRINCKERHOFF

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# Lessons Learned

## ■ OWNER

- Create single entity w/full authority
- Signed agreements amongst all lead agencies
- Budget viability; cash flow; contingencies
- Build trust - Maintain open & fair process
- Establish a reasonable procurement schedule & stick to it



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# Lessons Learned

## ■ DESIGN BUILD INDUSTRY

- Experienced team is critical for success
- Address concerns from local/smaller contractors
- National & international interest
- Appetite for risk varies
- Local, regional & national resources
- Financial - bonding, insurance, cash flow



# Procurement Strategies

- Method

- Qualification Based

- Best Value,

- Low Bid

- Selection

- one step vs. two step

- Evaluation

- Technical vs. Cost;

- Point score vs. Adjectival ratings



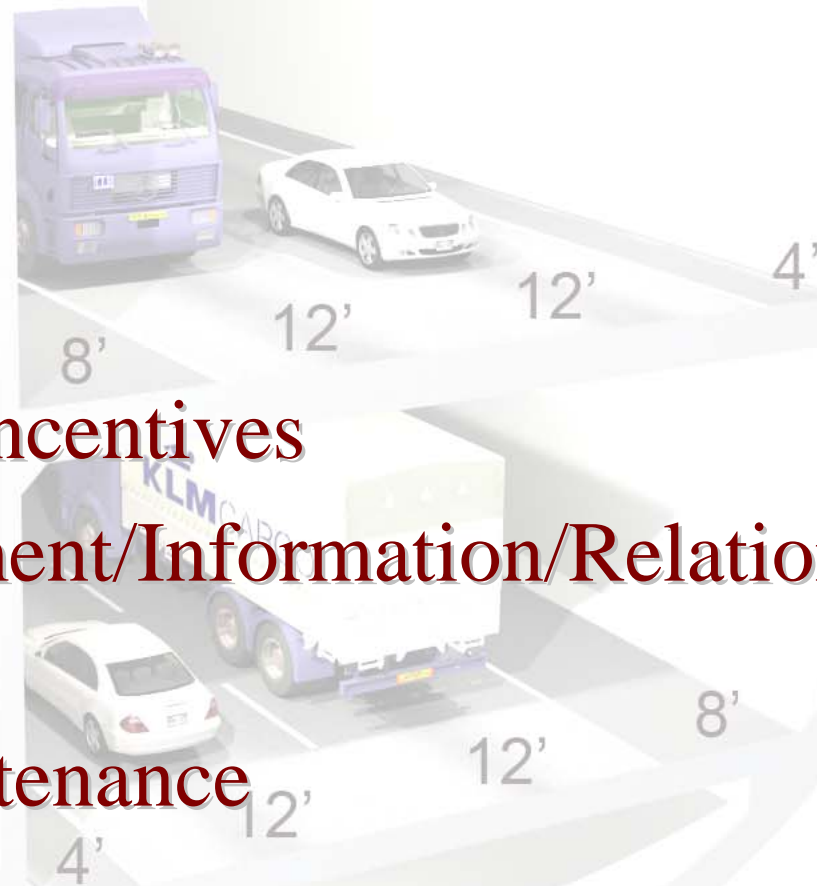
# Procurement Strategies

- NTP – One vs. Many
- Risk Decisions
  - Accept
  - Avoid
  - Mitigate
  - Allocate
- Independent Quality Firm
- Partnering
- Owner Controlled Insurance (OCIP)
- Team Co-location



# Procurement Strategies

- Stipend
  - Pay?
  - How much?
- Incentives / disincentives
- Public Involvement/Information/Relations – CRB
- Warranty/ Maintenance



# Project Specific Issues

- **Community**

- **MOT**

- **Impact to adjacent properties & businesses**

- **Utility relocations**

- **ROW**

- **RR**

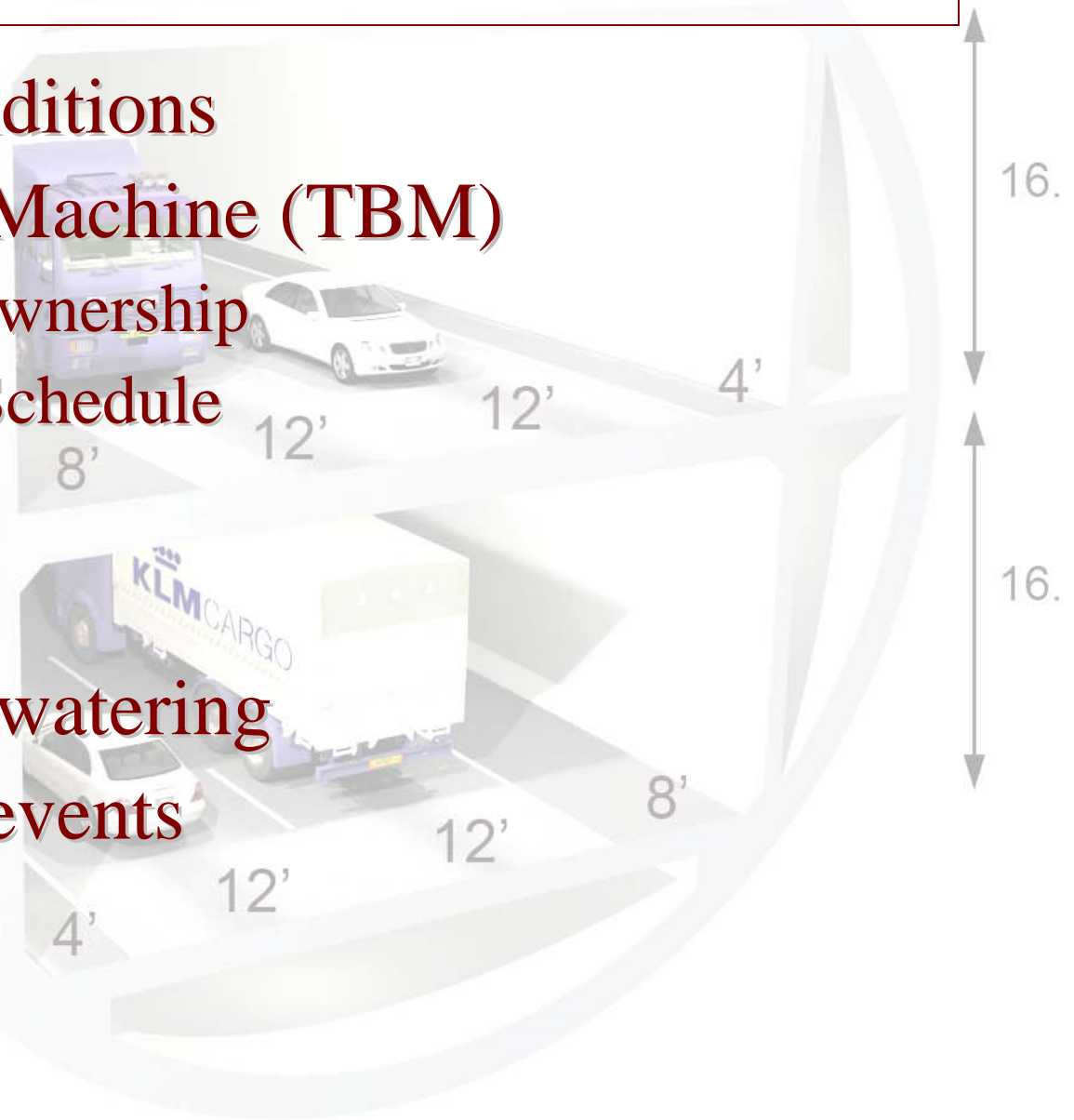
- **Haul routes – for disposal of sludge; access & egress for TBM**

- **Environmental Compliance - Noise, light & dust pollution**



# Tunnel Specific Issues

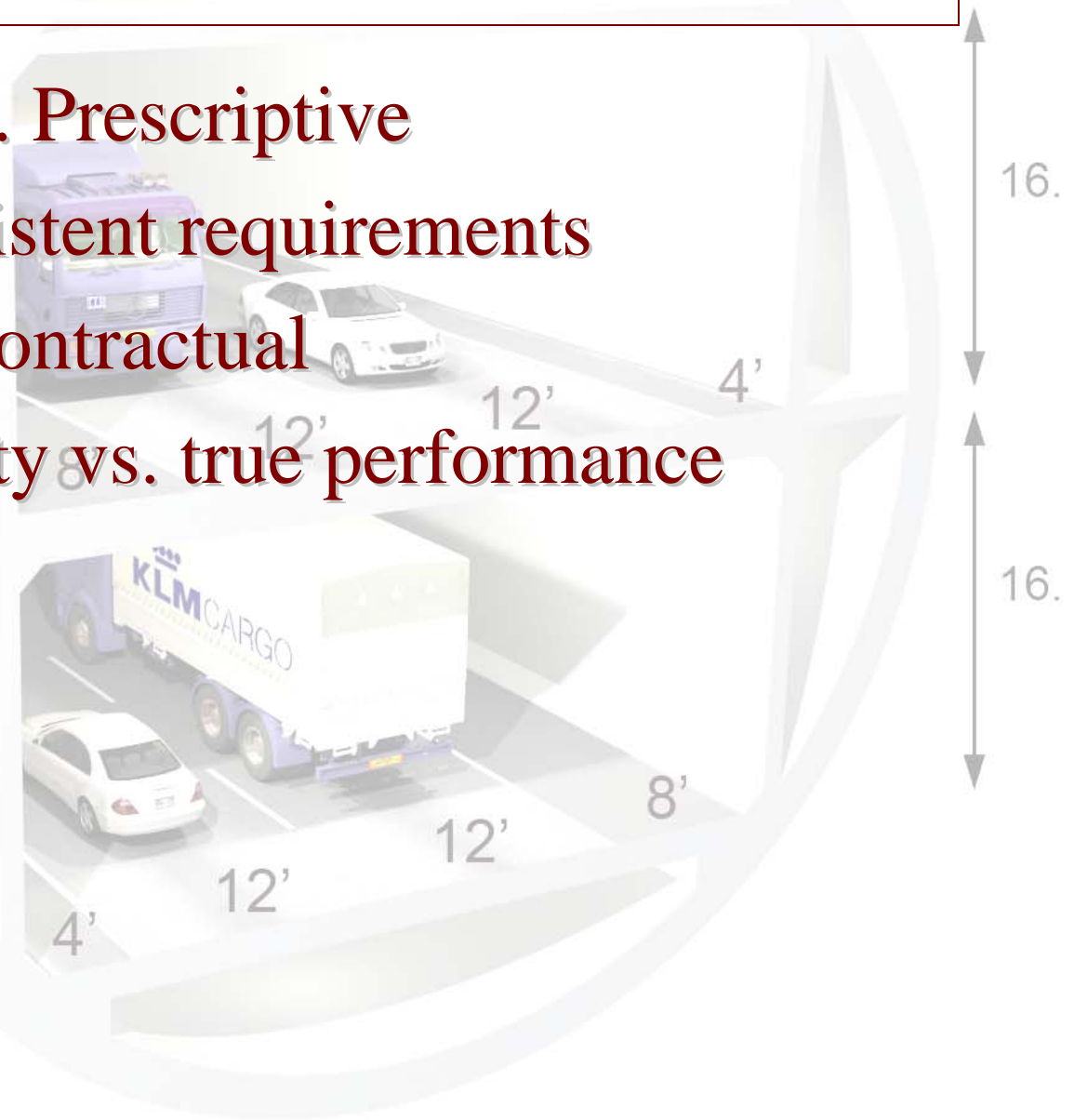
- Subsurface Conditions
- Tunnel Boring Machine (TBM)
  - Fabrication / Ownership
  - Production & Schedule
- Settlement
- Muck Disposal
- Infiltration / Dewatering
- Force Majeure events
- Safety
- Warranty





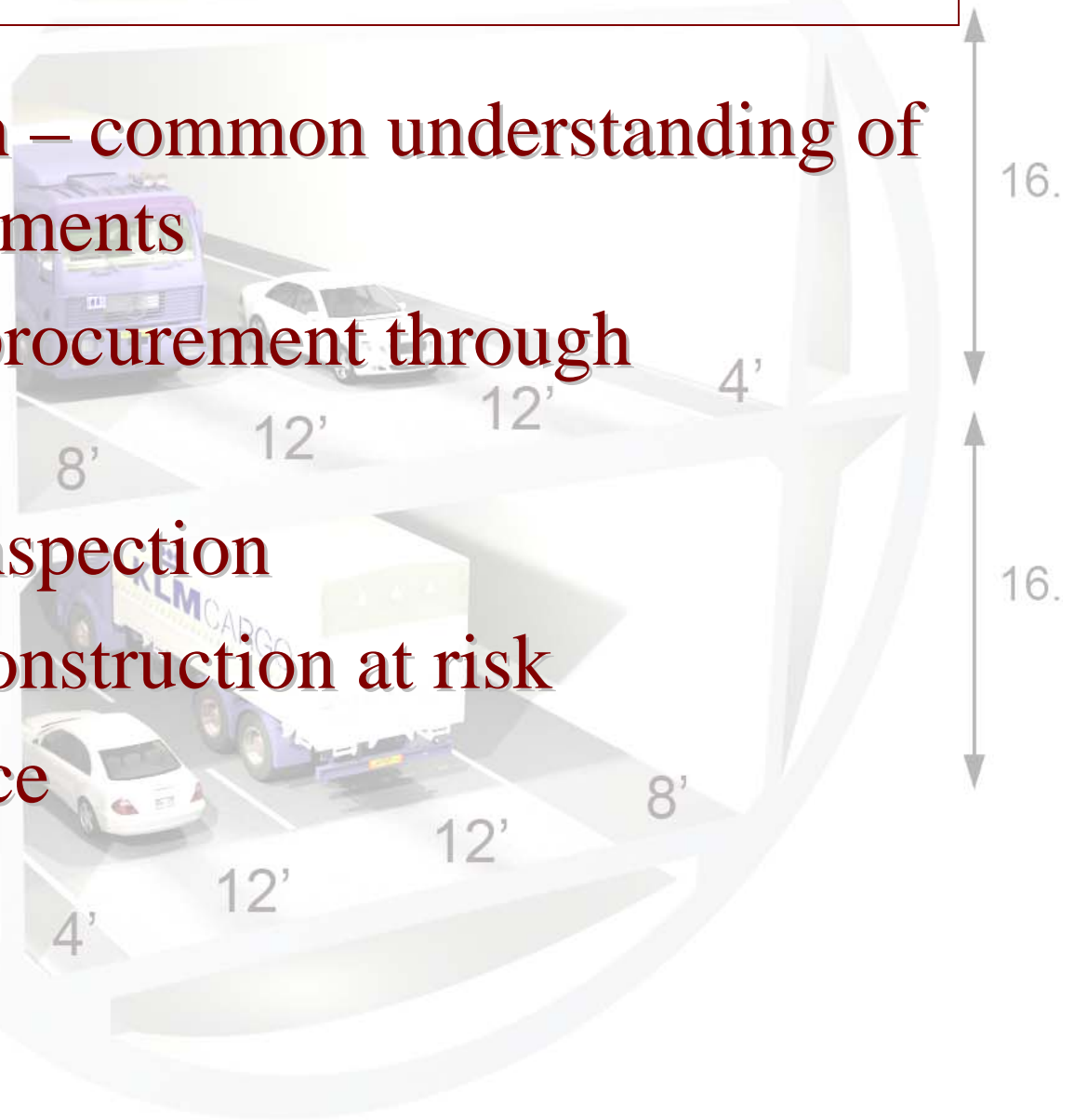
# Specifications / Design Criteria

- Performance vs. Prescriptive
- Clear and Consistent requirements
- Technical vs. Contractual
- Perceived quality vs. true performance
- Do's vs. Don'ts
  - Do – TBM
  - Don't - SEM



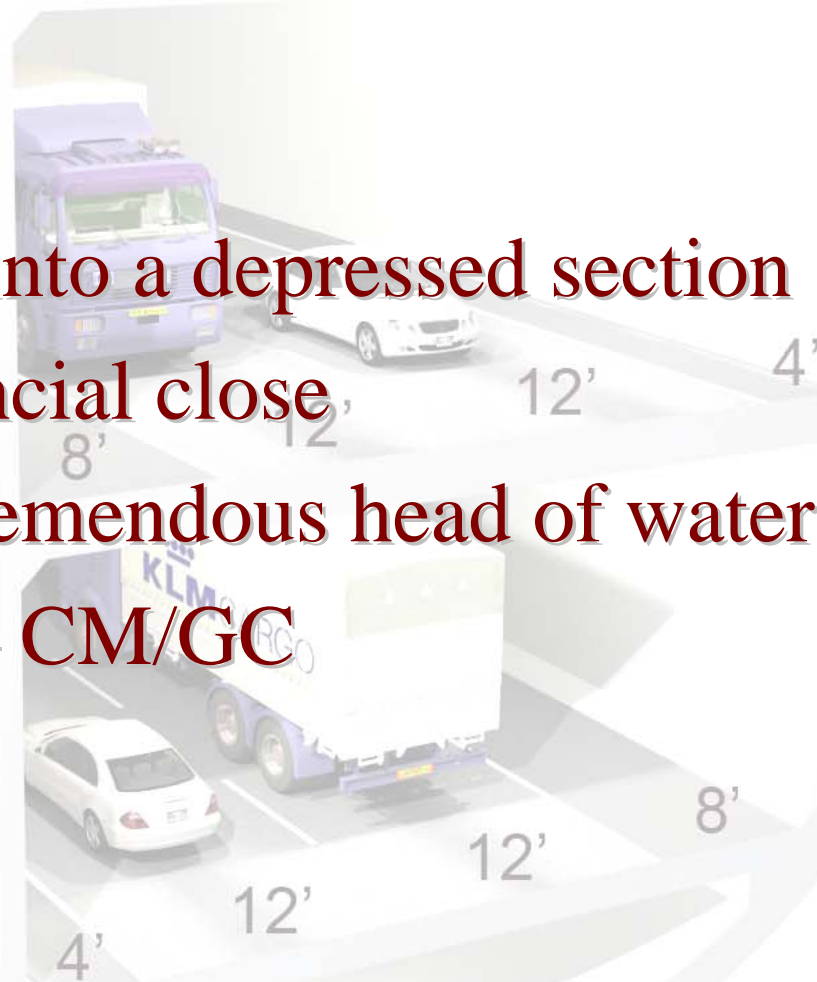
# Execution

- Team Approach – common understanding of contract requirements
- Consistency – procurement through execution
- Oversight vs. Inspection
- Approval vs. Construction at risk
- Final Acceptance



# Other Underground Projects

- LBJ – evolved into a depressed section
- POM – no financial close
- Lake Mead – tremendous head of water
- Portland CSO – CM/GC
- Sound Transit?

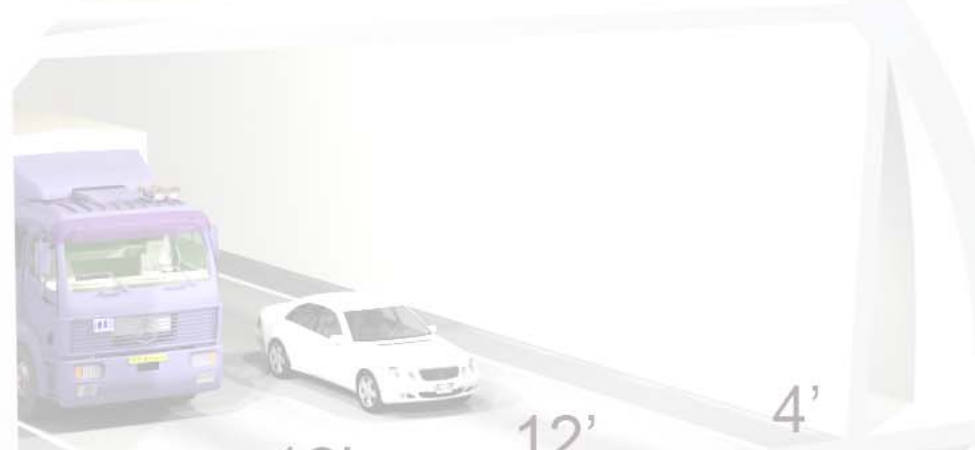


# Attitude

“Yes We Can”



# Discussion



Questions?

