PerspECCtive

Theme:
Be Ready to Lead and improve outcomes

Predictable Engineering in an Un-predictable World

Learning from our past to create a new future where we deliver predictable outcomes, with "value & trust" as the foundation of the relationship.
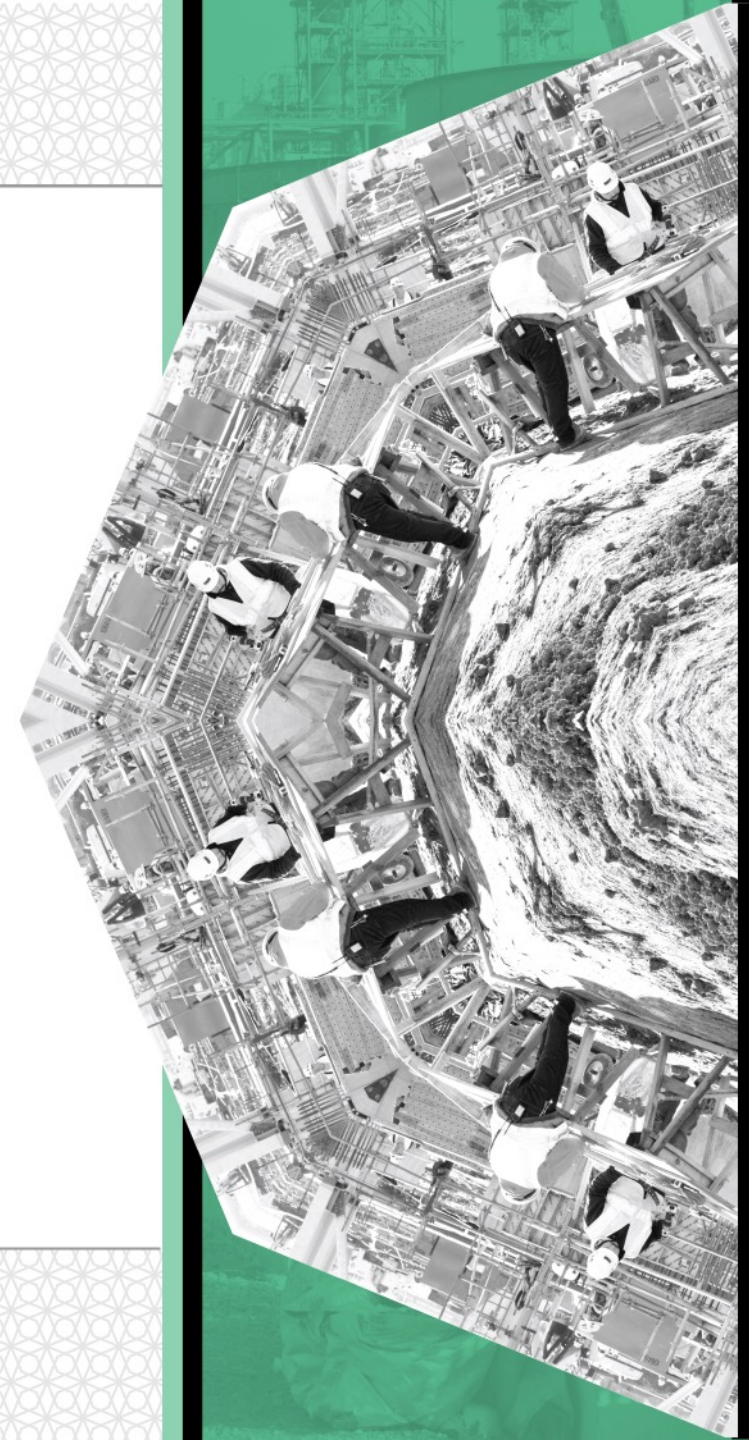
Year:
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Date:
August 31st

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Marco Island, Florida - Marriott

ECC

Predictable Engineering in an Un-predictable World

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Session Logistics

- ECC Slide here about the session Logistics, how to ask questions, etc.

Agenda

- Opening Remarks

- Improving Industry & Predictable Project Outcomes

- Case for Change: Learning from the past to create the new future

- The journey and successes
  - Alignment of the drivers
  - The foundation of the "how" of the new future
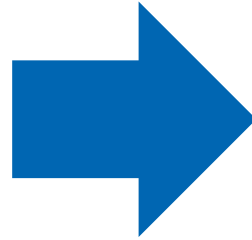
- Key Take-aways

- Closing Remarks

The challenges we face and the opportunities in front of us?

History has driven transactional delivery & commoditized engineering

Engineering is not just engineering

Re-wire our contract & relationships

Re-thinking design

Re-skilling the workforce

Deploy technology & innovation

Learning from the past to create a new future to deliver competitive and predictable outcomes

Organizational Capability

Gaps in both the Owner's & Contractors organization

Industry needs are out-stripping supply for talent

Design basis & lockdown

Design lockdown was not clearly defined and understood by all

HAZOP & MOC was not consistent

Out of Sequence progression

Progression of FEED and detailed design deliverables out of sequence with the work plan

Constructability Management

Inconsistent engagement with other functions to build constructability and safe execution into the design.

Quality of Deliverables

Incomplete or sub-standard deliverables

Documentation was inconsistent across owner and business partners

Management of Digital & Data

Poor management of vendor data

3D model readiness to support project needs

Asset Data & systemization inconsistent applied

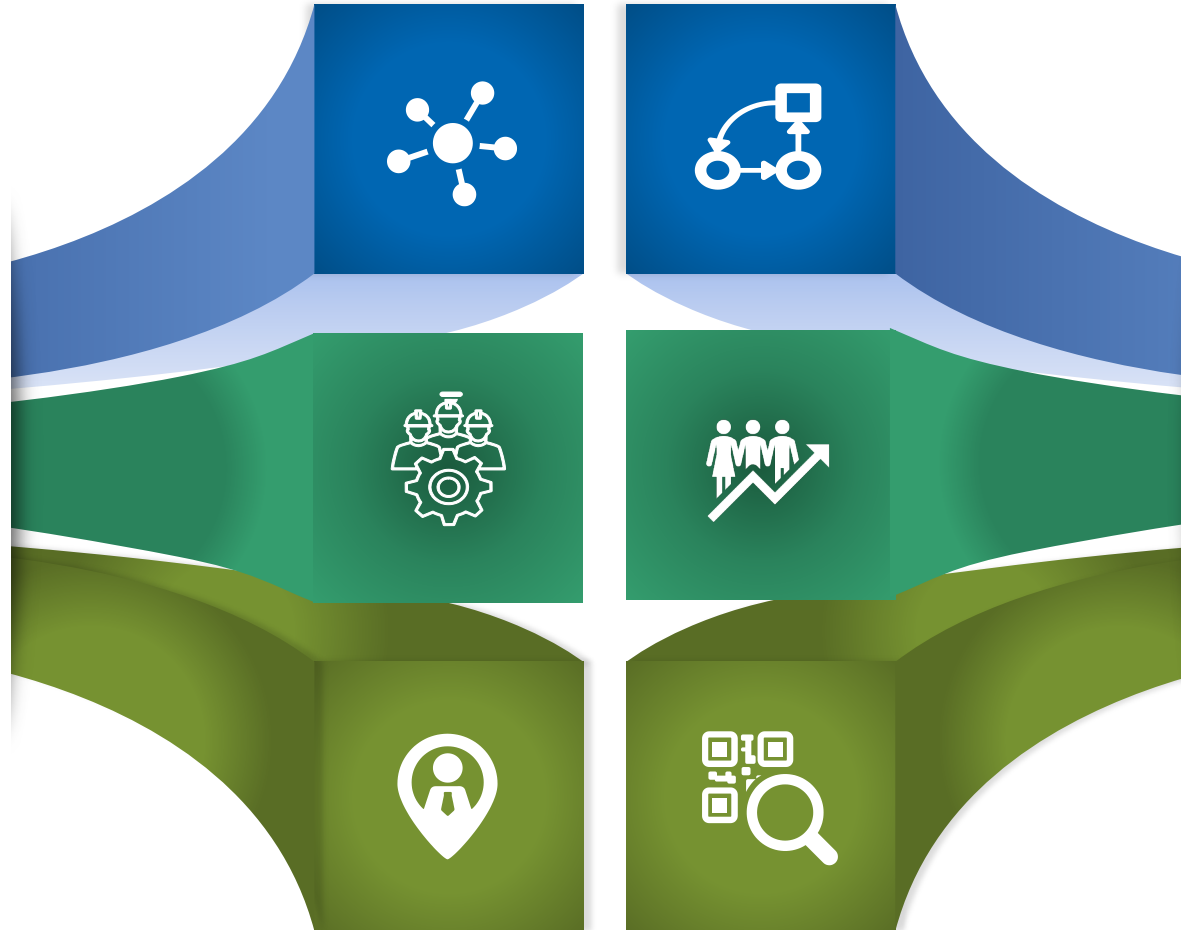# Success is driven by everyone aligning on the drivers & their intent

Work without Serious Injuries or Fatalities
- Zero Harm
- Industry Leading Performance

Higher Returns
- Industry Leading Performance
- Predictability of Project Outcomes
- Win-Win
- Commercial Flexibility and Adaptability to Business and Market Needs

Collaboration for Success

Lower Carbon
- Sustainability and Carbon Reduction
- Industry Leading Performance

Better Leaders
- People and Team – Development and Collaboration
- Predictable Workload And Optimized Personnel Utilization

The foundation of the "how" for the new future

Strategic shift to focus on **partnership first**, ease of doing business

Building Relationships, **Trust** & Working as **One team**

Creating an environment of **challenge, co-development and ingenuity**

Flexibility and Adaptability– **think Global, act Local**

Innovation - openness to try new approaches/tools

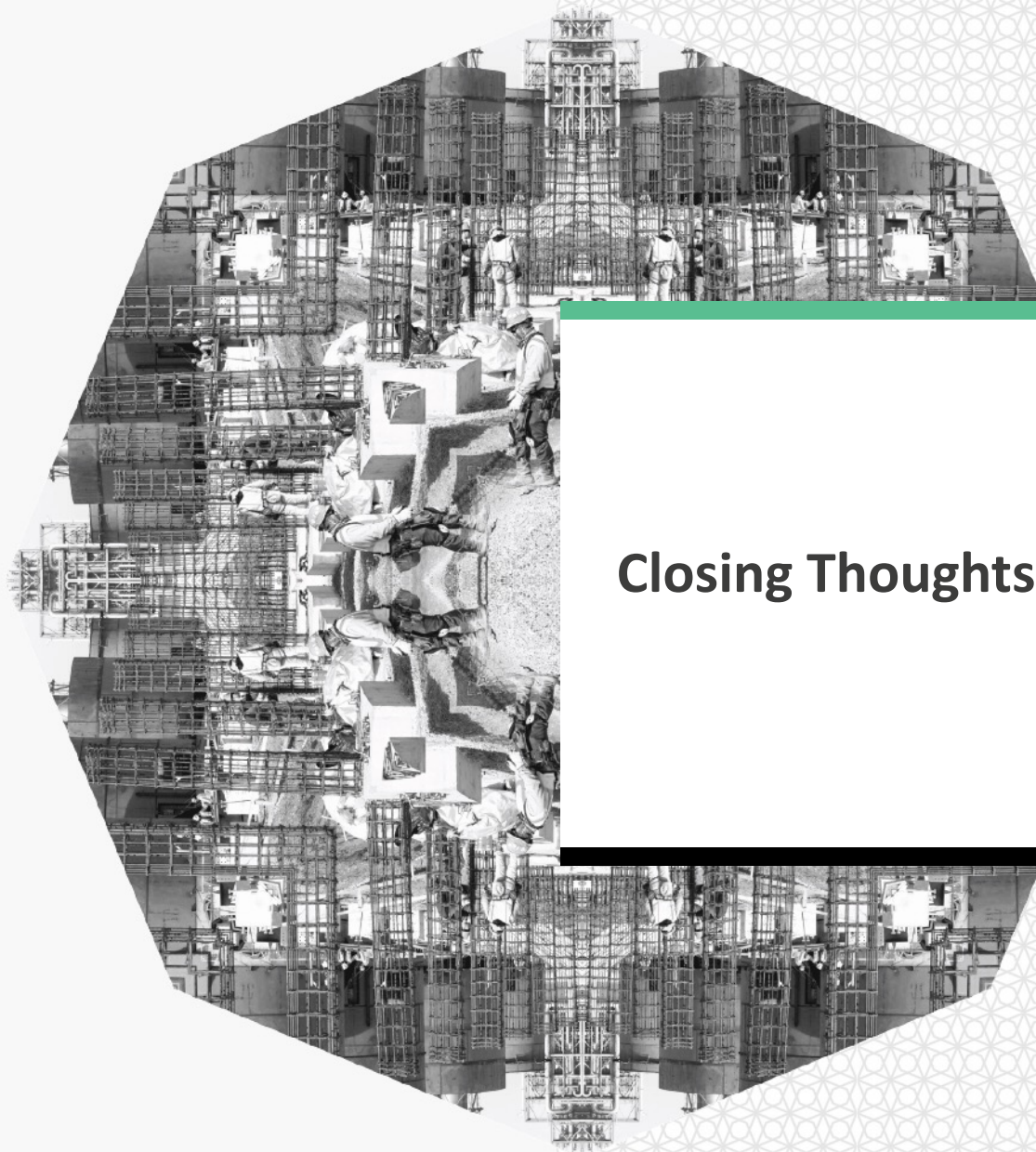**Transparency** for planning & open **learning culture**

Key Takeaways

- Engineering needs to change from Commodity based to Value driven. Where are you today? What lens are you looking at your business?

- "Trusted partnerships" are foundational and when paired with a long-term outlook drive sustainable & repeatable performance improving outcomes.

- Focus on building & enabling the right relationships and collectively owning the "how" through:

  – Transparency of expectations & workload outlook

  – Creating the right environment for challenge, learning, innovation and continuous improvement

  – Developing people, new ways of working and digital solutions

- The contract needs to be flexible, enable the "how", reward strong performance and improve profitability & predictable outcomes for all

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Closing Thoughts

Thank You!