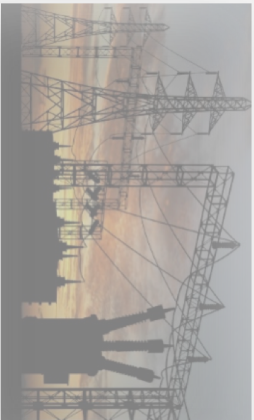


Capital Projects Services & Advisory Partner

Providing an Integrated and Collaborative Approach to Successful Project Delivery



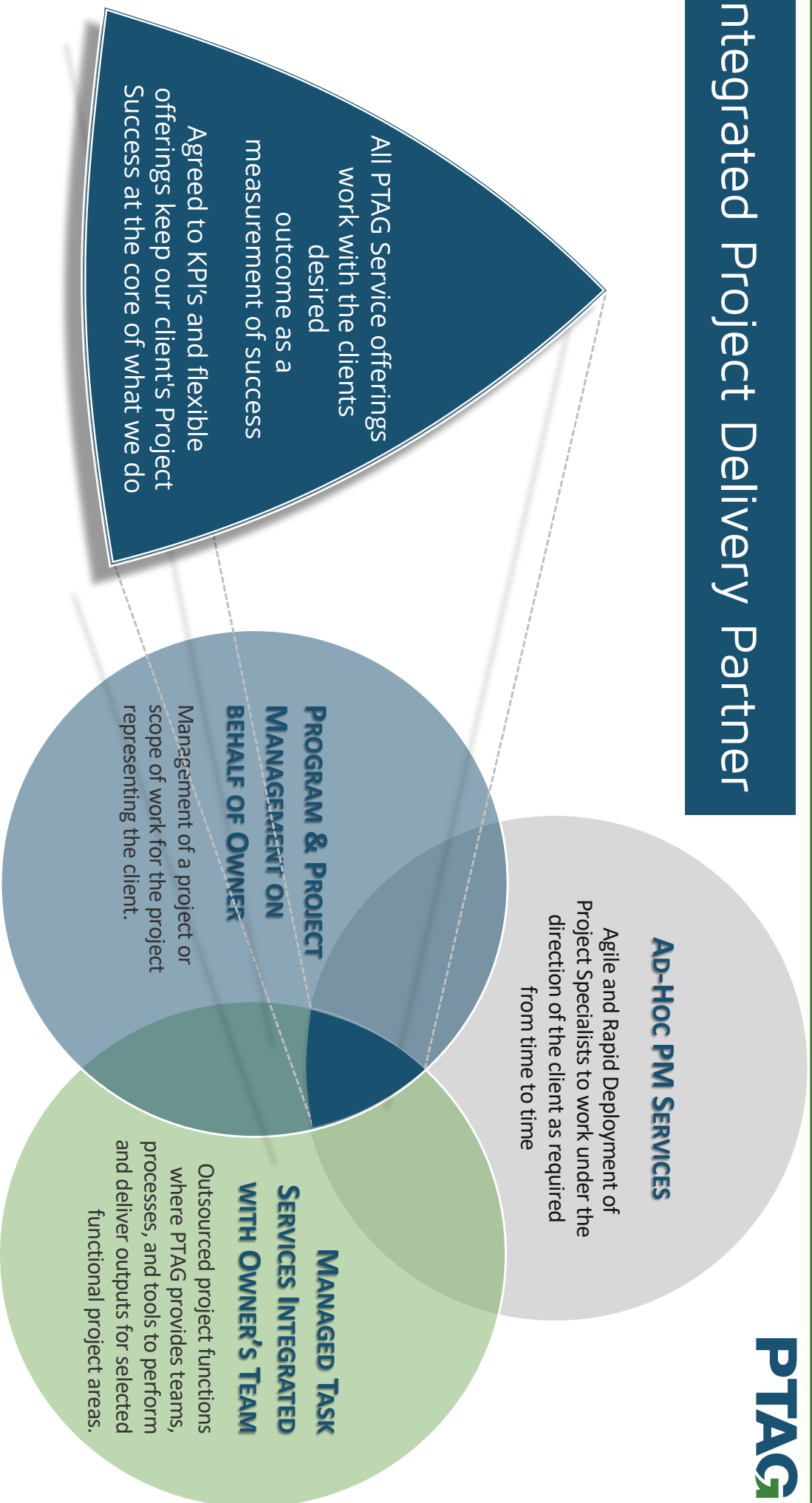
PTAG Overview – Program & Project Management Specialists

Supporting our clients through all project phases of Major Project or Sustaining Capital Programs, PTAG Project Management experts have required experience to address complex project concerns, leverage industry best practices, provide proactive solutions to mitigate social, economic, environmental, technical and commercial concerns impacting cost, schedule, safety and quality concerns.

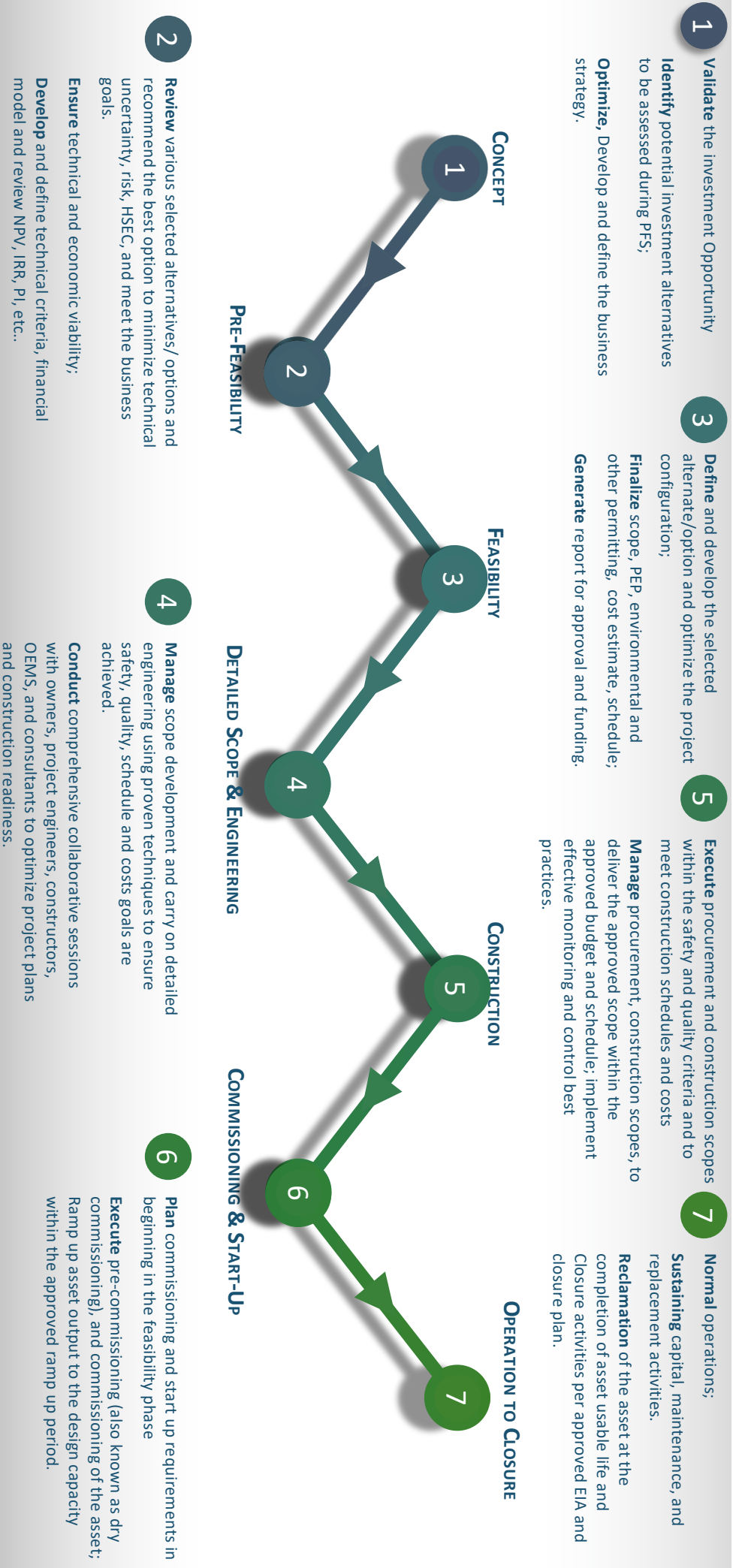
Our mission is to **increase project predictability and success rates** by incorporating agile and risk-sharing contracting strategies, foster true-partnerships focused on project objectives, proven and lean project management techniques with state-of-the-art tools and systems adapted to fit our clients' projects.



Integrated Project Delivery Partner



PTAG supports its Clients through all stages of a project life cycle



Advisory & Consulting



AREAS OF EXPERTISE

Program & Project Management
Estimating and Budget Development
Project Controls – Planning, Scheduling, Cost & Reporting
Procurement & Contracts Management
Project Economics
Stakeholder Engagement: Community, Regulatory, First Nation
Construction Management
Risk Management
Inspection and Quality Management
Commissioning & Start up Services

SERVICE OFFERING

Project/Program Assessments
Governance & Execution Process Development & Reviews
Owner Representative
Value Engineering & CAPEX Reviews
Third-Party Peer/Cold-Eye Reviews
Independent Front-End Planning and Execution Reviews
Constructability Reviews
Project Assessment & Monitoring
Project Management Training Project Systems Reviews,
Improvements & Implementations
Managed Project Development Planning & Execution Services
Project Benchmarking

Professional Services

Resourcing

Targeted resourcing to attract experienced professionals, implement vigorous hiring and onboarding processes, designed to match project phases

Development

Strategies to grow project team development across the organization, programs focused on health of the project professionals, as well as career advancement and growth

Retention

Assess project employee markets, develop retention/reward programs, engagement programs, KPI measurement, productivity reporting, global resourcing

Services

1. Project/Resource Planning and Strategy
2. Project Organizational Structure Planning Reviews and Development
3. Critical Path Resource Analysis & Secondment

1. Compensation analysis
2. Project Team Development and Performance Management
3. Resource Capacity Planning

1. Retention Program Development
2. Employee Engagement programs (focus on Project interaction)
3. Succession Planning

World Class Project Management System



Single Source of Truth:
Project Monitoring & Reporting

Out of the box cost control and EVM functionality

Integrated with Corporate ERP and Maintenance Systems

Change & Progress Management

Complete set of real time metrics including Safety, Quality, Schedule and CPI&SPI

Mobile platform in the field can report project progress in real time

(I2PPD)

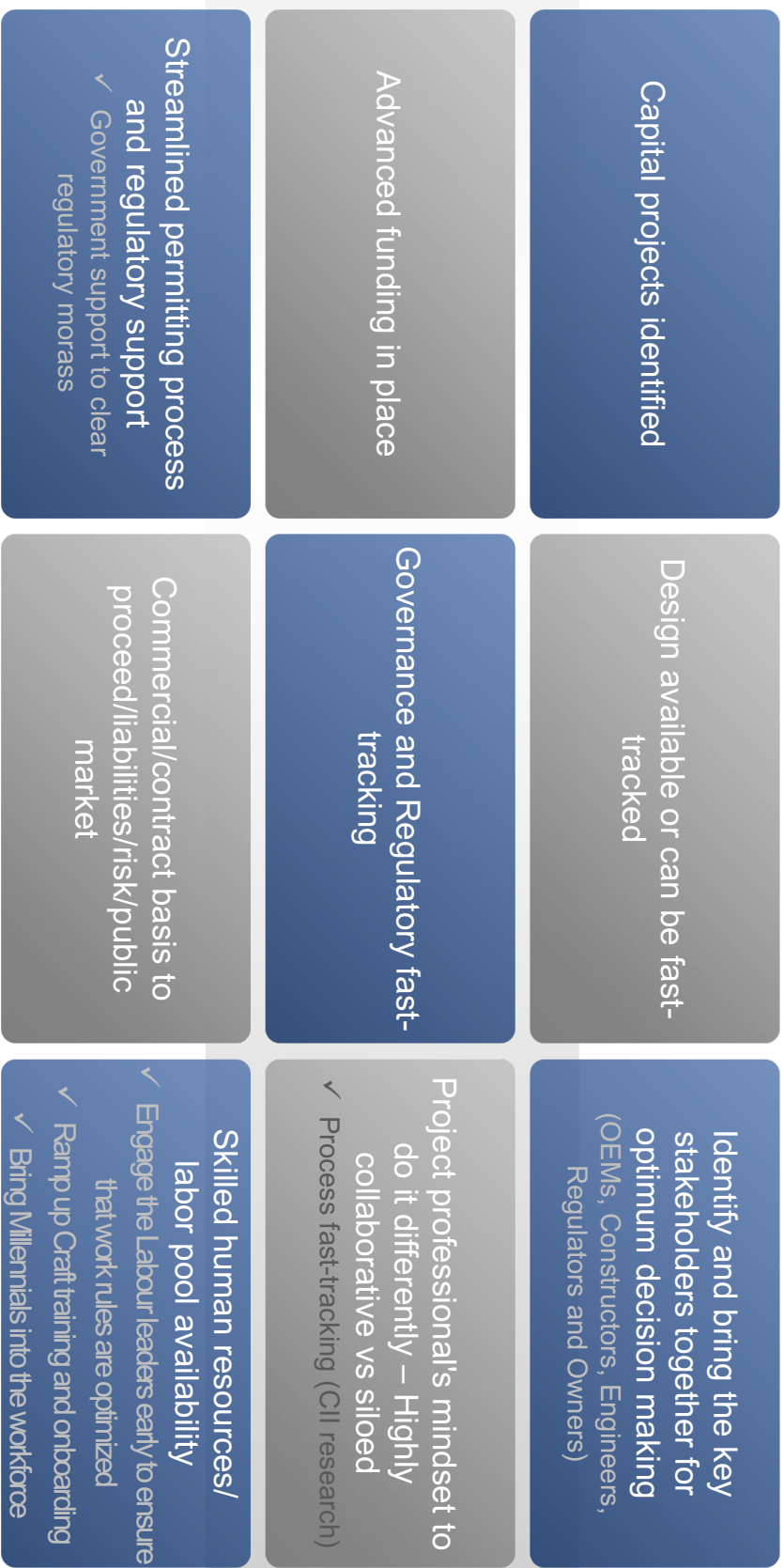


RT383 – Industrial Integrated Project Delivery (I2PPD)

A Good Candidate for Quickly Planning and Executing Capital Projects

Aug. 2020

What's Needed to Rapidly Plan and Deliver Capital Projects?



I2PD

Industrial Integrated Project Delivery (I2PD)

Defined as the balancing of nine principles to promote team *collaboration* and *integration* of work processes and systems.

1. Continuous Communication and Issue Resolution Process
2. Jointly Developed and Validated Targets
3. Access to Shared Information Systems
4. Early Involvement of Stakeholders
5. Collaborative and Equitable Decision Making

COMMERCIAL IPPD

Collaboration Principles

6. Financial Transparency among Key Participants
7. Shared Risk and Reward
8. Relational Contracting, Multi-party Agreement
9. Negotiated Risk Distribution

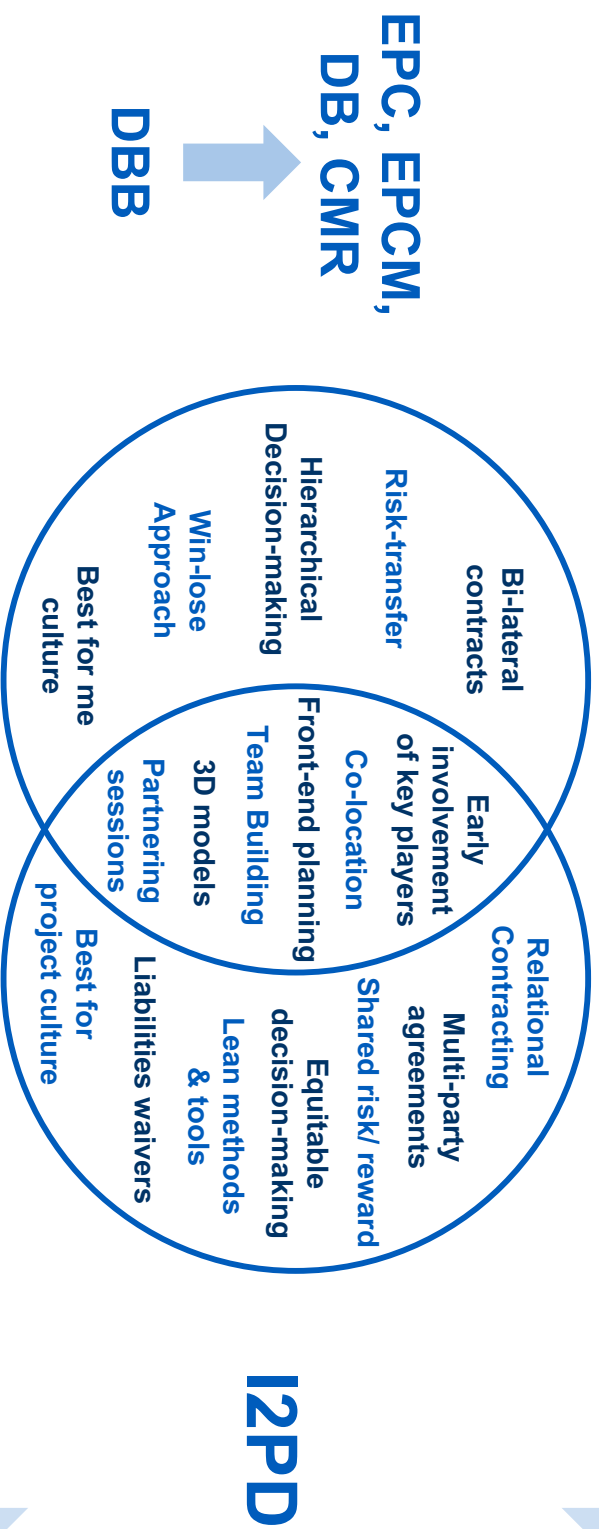
ALLIANCING

Integration Principles



What is I2PPD?

Trust, Collaboration, Integration, Open Communication



Improved Safety, Earlier Cost and Schedule Certainty, Optimized Design



What Types of Projects Can I2PPD Deliver?



Power, Utilities, and Infrastructure

- ✓ Transmission & generation
- ✓ Rail Line and Terminals
- ✓ Dams, bridges & roads
- ✓ Port & harbor upgrades



Downstream and Chemicals

- ✓ Refining facilities
- ✓ Petrochemical facilities
- ✓ Specialty chemical facilities



Upstream, Midstream and Mining

- ✓ Offshore terminals
- ✓ Pipelines
- ✓ Oil and gas production




Manufacturing and Life Sciences

- ✓ Pharmaceuticals
- ✓ Personal Protective Equipment (PPE)



Facilities and Healthcare Buildings

- ✓ Warehouses
- ✓ hospitals



I2PPD Fast Tracking Projects with Certainty



Why I2PPD?

Commercial IPD has been proven to have a **superior performance** in metrics related to quality, communication, and change performance.

Projects see **less change, faster processing times, and significantly faster delivery times** (El-Asmar et al. 2013).

A major finding, on a study of construction projects utilizing Commercial IPD, showed a striking uniformity of **success for all projects** in the study, **regardless of project type, scope, geographic location, or previous experience with IPD** (Cheng et al. 2016).



Increased cost certainty



Assurance of costs being covered



Schedule acceleration



Supply chain certainty



Improved quality



Collaborative next gen environment



Facilitates knowledge transfer

I2PPD is a great fit for the planning and execution for complex and large capital projects.

Disaster Infrastructure Recovery Case Study: Collaborative/Integrated Delivery Model

CHRISTCHURCH, NEW ZEALAND
EARTHQUAKE DAMAGE &
RELIEF EFFORTS

STRONGER CHRISTCHURCH INFRASTRUCTURE REBUILD TEAM (SCIRT)
ALLIANCE FORMED TO REBUILD CITY | \$2.2 BILLION PROGRAM SPREAD OVER 5 YEARS

Christchurch
City Council



New Zealand Government

city care

Downer

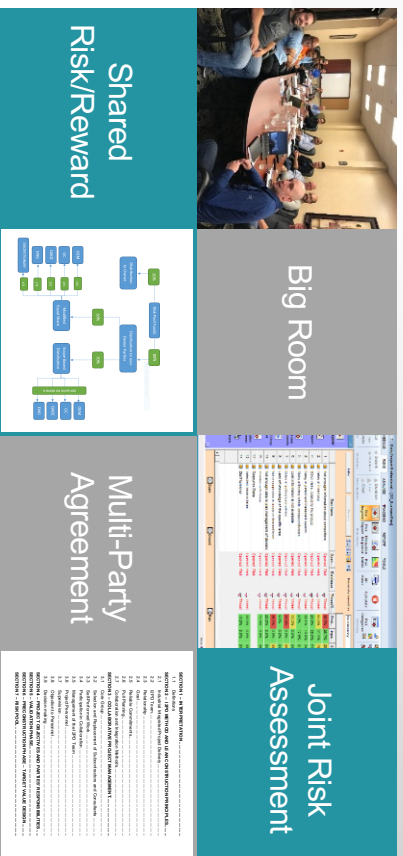
Fulton Hogan

McCONNELL
DOWELL
CREATIVE CONSTRUCTION™

Fletcher



I2PPD Case Study: Otto Holden Generating Station



COST REDUCTION
32% from RFP

SCHEDULE IMPROVEMENT
36% from RFP

Four major vendors putting 100% of their profits at risk for equitable decision making and majority of execution savings

Benefits of I2PPD

Protect contractors

Protects contractors financially, reducing the possibility of lay offs.

Incentives

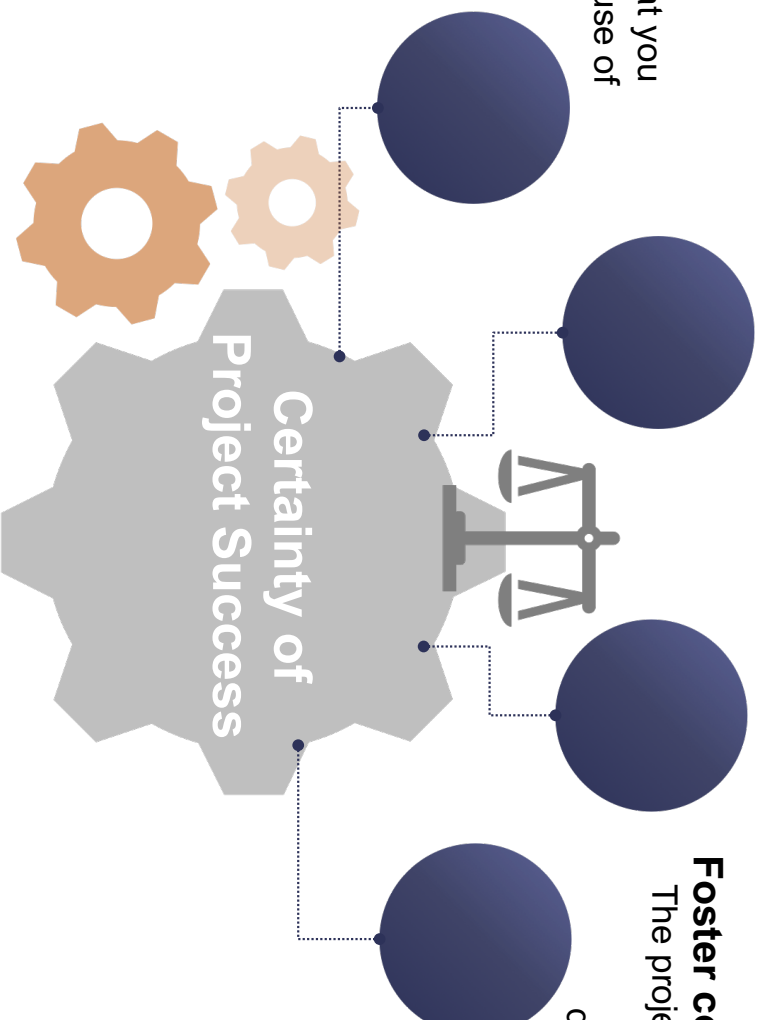
All parties have much to gain by meeting the client's financial goals

Increase certainty

You can begin projects that you otherwise would not because of high levels of uncertainty.

Foster collaborative environment

The project team is encouraged to work through changes rather than detail out each party's liabilities.



Summary

**I2PD increases speed, trust and transparency
as a contracting strategy - delivers project outcome certainty**



I2PD

Questions and Answers





*Delivering Safe Projects with Certainty, Integration
and World-Class Performance*

Bruce Burwell

Partner – Capital Projects

bruce.burwell@ptaginc.com

1-613-433-1377

