




FCC AIR – ACCCESS, INSPECTION & RESCUE

Refcomm Galveston 2016

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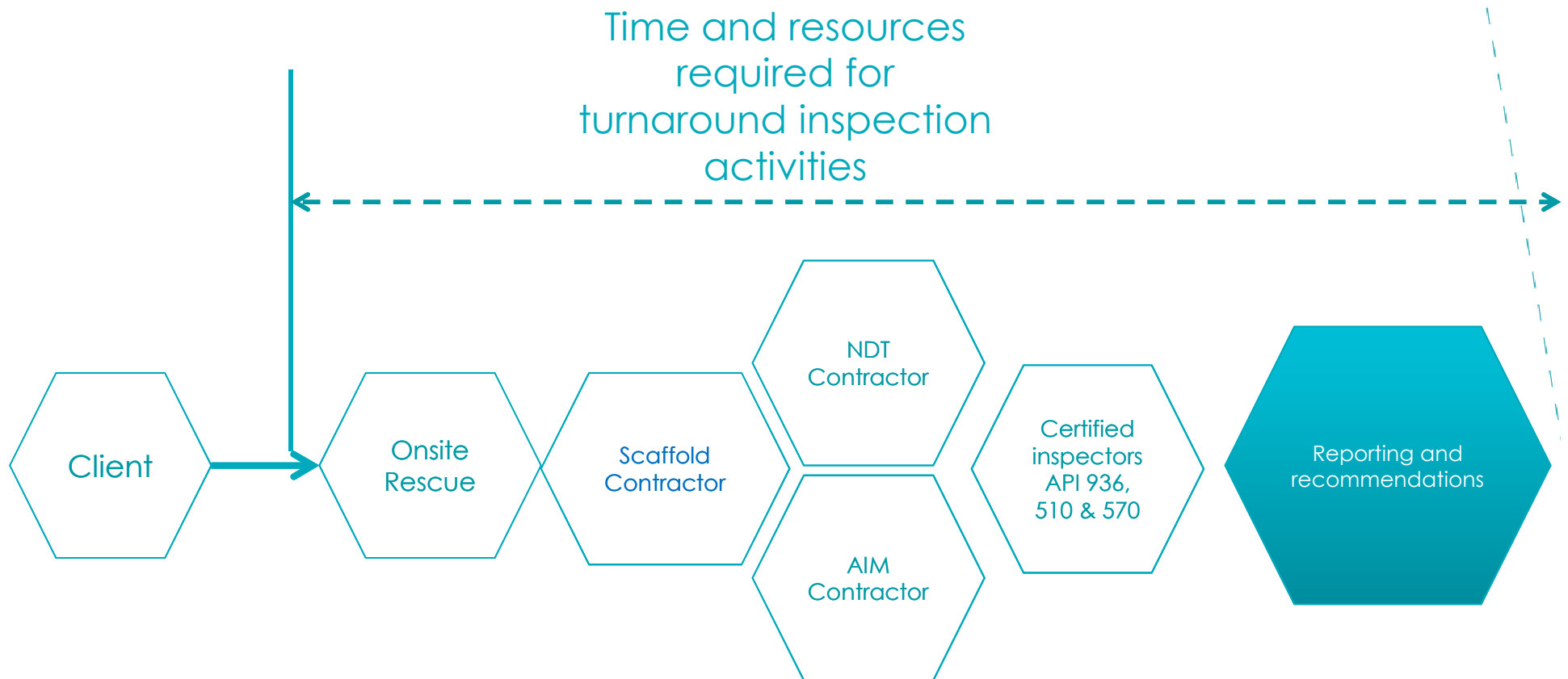
AIR concept **I**ncreases
your **P**erformance,
Reduces your **C**osts &
Time on the **C**ritical Path



Inspection and Maintenance Challenges for FCCU turnarounds

1. Large & Complex Equipment
2. Confined spaces
3. Long lead time for making area safe to work in
4. Multi-level working
5. High risk of **Dropped Objects**
6. Scaffold challenges and constraints
7. Difficult rescue environments
8. Multiple service companies requiring co-ordination

Traditional Inspection Support Disciplines for FCCU Turnarounds

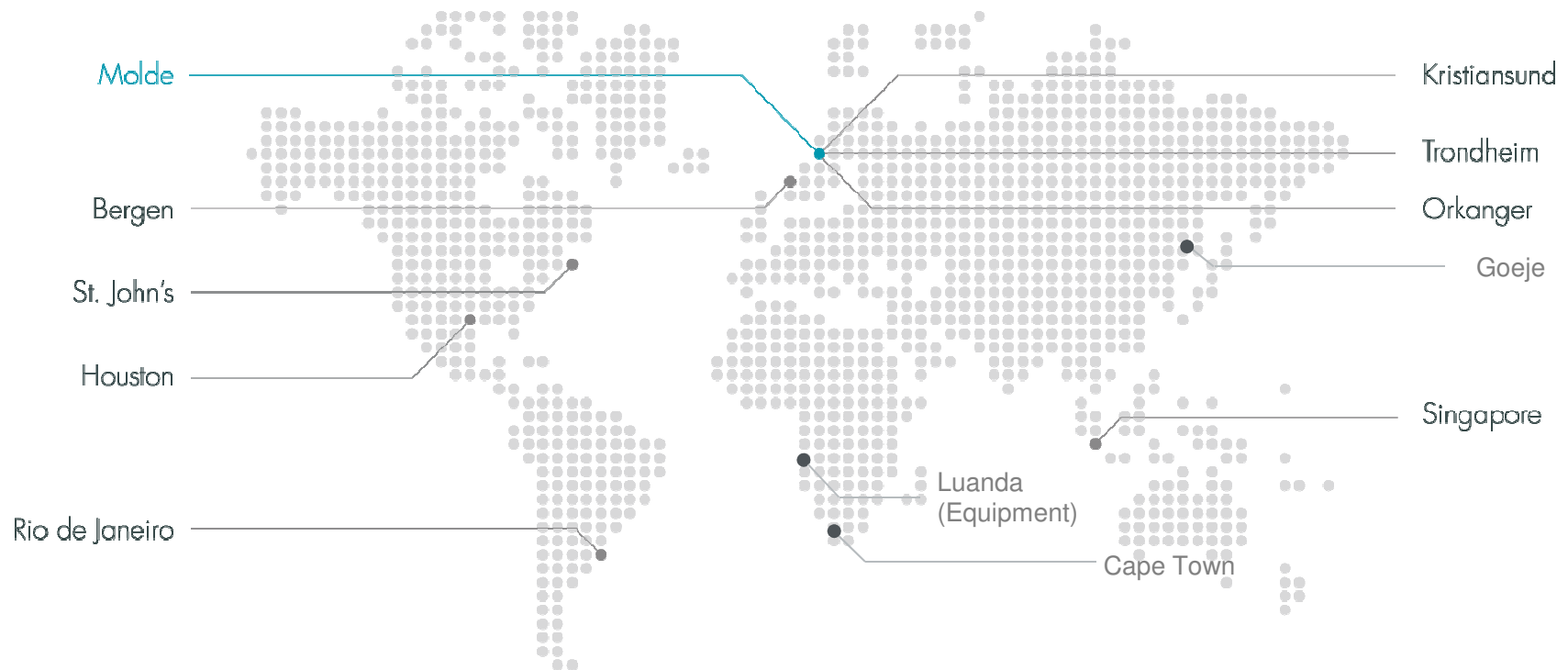


Axess – FCCU turnaround inspection support concept

Time and resources
delegated to Axess by
client for turnaround
activities



International Footprint





Access

Providing safe Access to areas within confined spaces by means of Rope Access Technique.

Inspection

Performing refractory and mechanical **Inspections** within the FCC unit:

- Regen & Reactor Cyclones
- Reactor Riser
- Over Head Flue Gas Lines
- Over Head Vapor Lines
- External Regen, Reactor & Associated Pipe Work
- Fractionator Internals, External & Associated Pipe Work

All the above activities can be performed utilizing **Rope Access Techniques**

Rescue

Providing Rescue and Safety support within confined spaces for personnel working at height during maintenance, shutdown & turnaround activities

AIR method of providing reactor riser rescue

Example: Statoil Mongstad



Keys Benefits for CLIENT.....

Reduced turnaround time

- Reduced costs
- Flexible and reactive work method

Increased Safety Performance

- Reduced personnel exposure to hazardous working
- Minimizing Dropped Objects potential



The background is a solid teal color. A thin white horizontal line spans the width of the image. A thin white vertical line is positioned on the right side. A dashed white diagonal line runs from the bottom-left towards the top-right. These three lines intersect at a central point marked by a small white circle. The word "QUESTIONS?" is written in white, uppercase, sans-serif font on the left side of the horizontal line.

QUESTIONS?

World Class **Integrity** Solutions