TKF SUBSEA SOLUTIONS

From Framework to Field –
APQP4Wind as a Business Enabler at TKF

THE TKF EXPERIENCE FROM NORDLICHT 1+2 IN COLLABORATION WITH VATTENFALL

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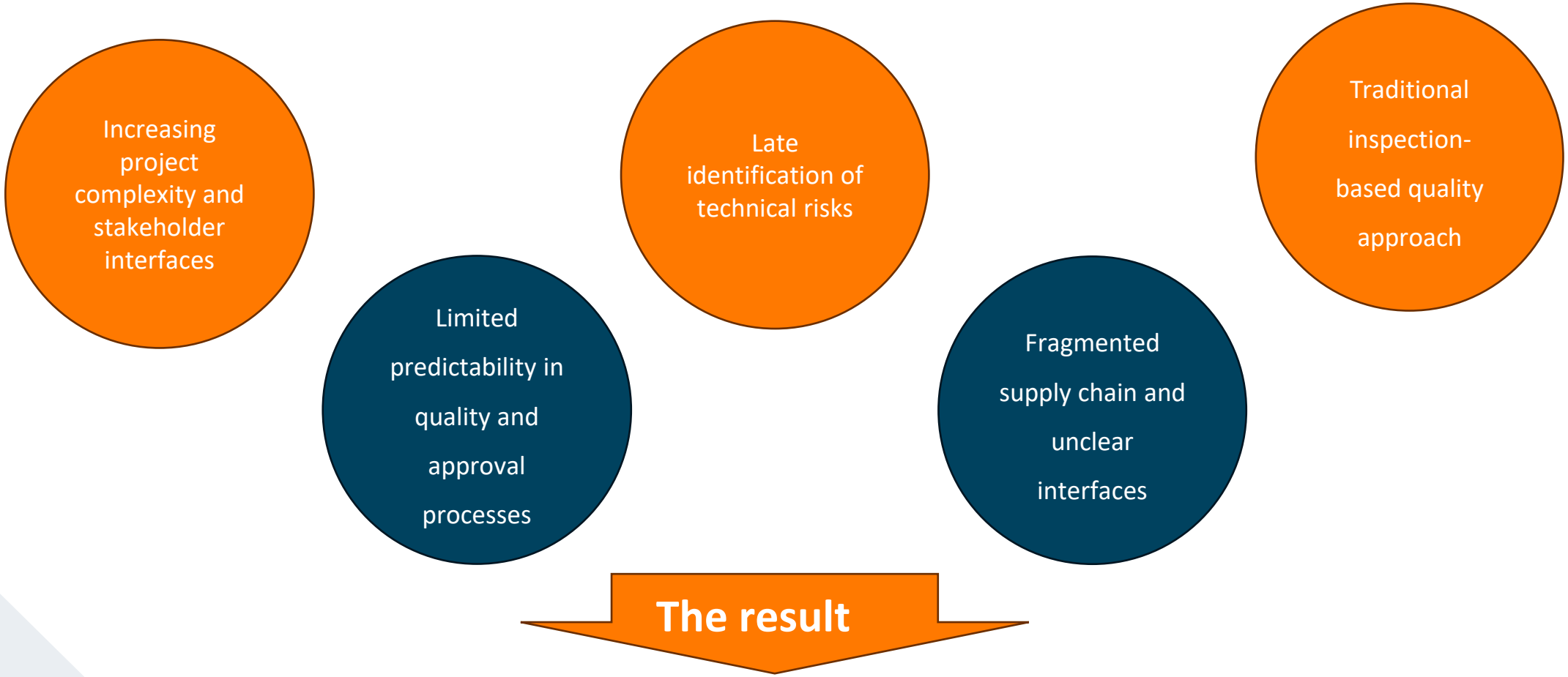
Why APQP4Wind – Industry Challenges



Often a reactive approach with limited predictability

Mindset shift – From Add-on to Operating Model

Add-on thinking

- Extra documentation
- Additional workload
- Application in later stage of project

Operating model

- Integrated way of working
- Build-in quality planning
- Front-loading risk management and decision-making
- Applied from day 1

What APQP4Wind means in practise at TKF

From silos to cross-functional collaboration

Early alignment on Critical Characteristics.

Front-loaded risk identification

Risks are managed up-front and not during execution. Identification by tools such as D/PFMEA.

From project-specific approaches to standardization

Standardized approach across projects and stakeholders.

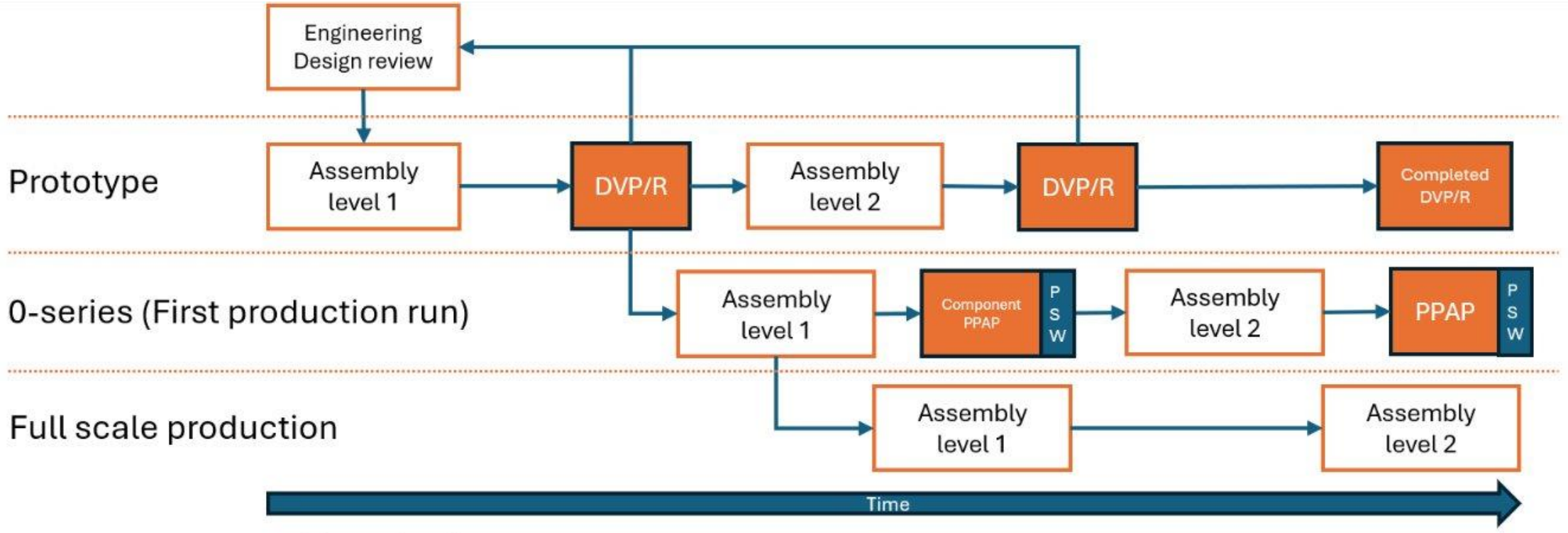
From inspection to process control and prevention

Shift from Inspection Test Plan (ITP) to Control Plan (CP).

From experience-based execution to structured and predictable delivery

Integrated collaboration with customer and supply chain.

Harmonization process and methodology



Business Impact & Key Learnings

What works → What does it take → What is the potential → What challenges does the industry need to address

What works (Strengths)

- Standardized way of working across projects
- Effective **transparency** across stakeholders
- Strong foundation for knowledge reuse

What it requires (Lessons learned)

- Early involvement of customer and supply chain
- **Alignment** across functions and stakeholders
- Capability development across functions – from tools to way of working

Where we see value (Opportunities)

- Improved **predictability** and **scalability** in project execution
- Shorter approval lead times
- Reduced cost of poor quality

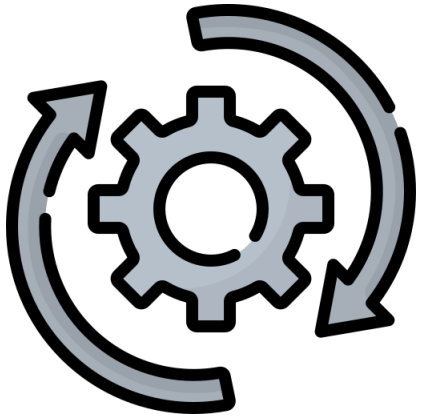
What must be aligned (Industry challenges)

- Clear definition of critical characteristics (CTQs)
- Improved **alignment** and transparency across stakeholders
- Improved interface management across stakeholders

Scaling APQP4Wind

What it requires?

- Integration into existing QMS-systems and not be seen as an add-on.
- Clear definition of CTQ’s and alignment across stakeholders.



What must change?

- Reduce duplication and rework in current document structures
- Align technical, contractual and quality requirements

What it enables?

- Predictable and scalable project execution
- Better collaboration across the value chain

*APQP4Wind is **not** an add-on, its a scalable way-of-working*

Customer perspective - Vattenfall

From inspection to quality planning

Predictability

When we run fast, that's when we need to be ready.