PACIFIC POWER ASSOCIATION

Modernizing Today's Grid for Tomorrow's Needs

Building a More Reliable, Resilient, and Sustainable Utility Without Replacing Everything

Yane Coceski | NovaTech Automation



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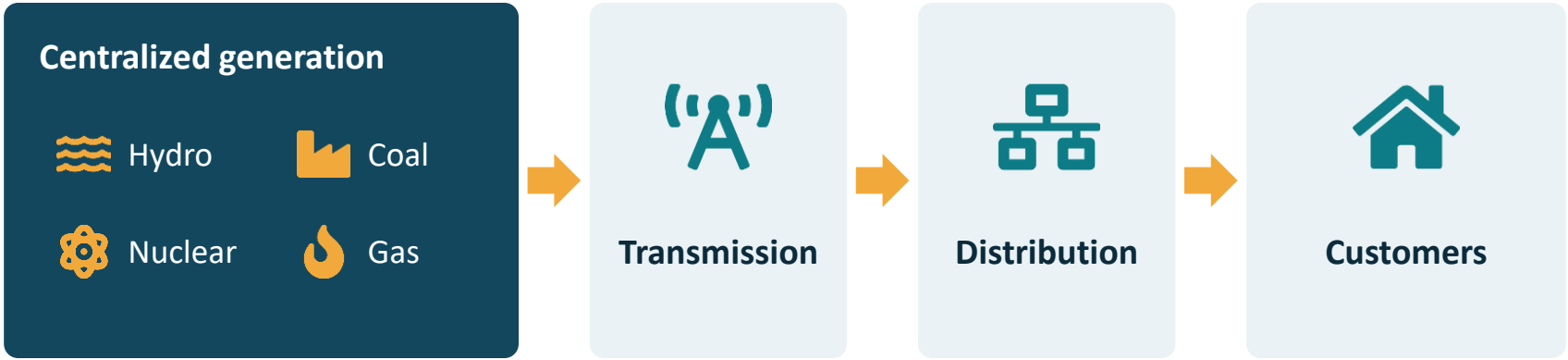
Today's Agenda

From Where We Are to Where We Can Go

1. **The Grid Then and Now**
   From centralized and one-way to distributed and two-way
2. **The Executive Challenge**
   More expectations, same resources
3. **Practical Modernization**
   Why rip-and-replace isn't the answer
4. **Visibility First**
   The foundation for every improvement
5. **Technology and Outcomes**
   What modern utilities can achieve
6. **The Roadmap**
   Start small, scale smart

The Grid We Built

A System Designed for a Different Era



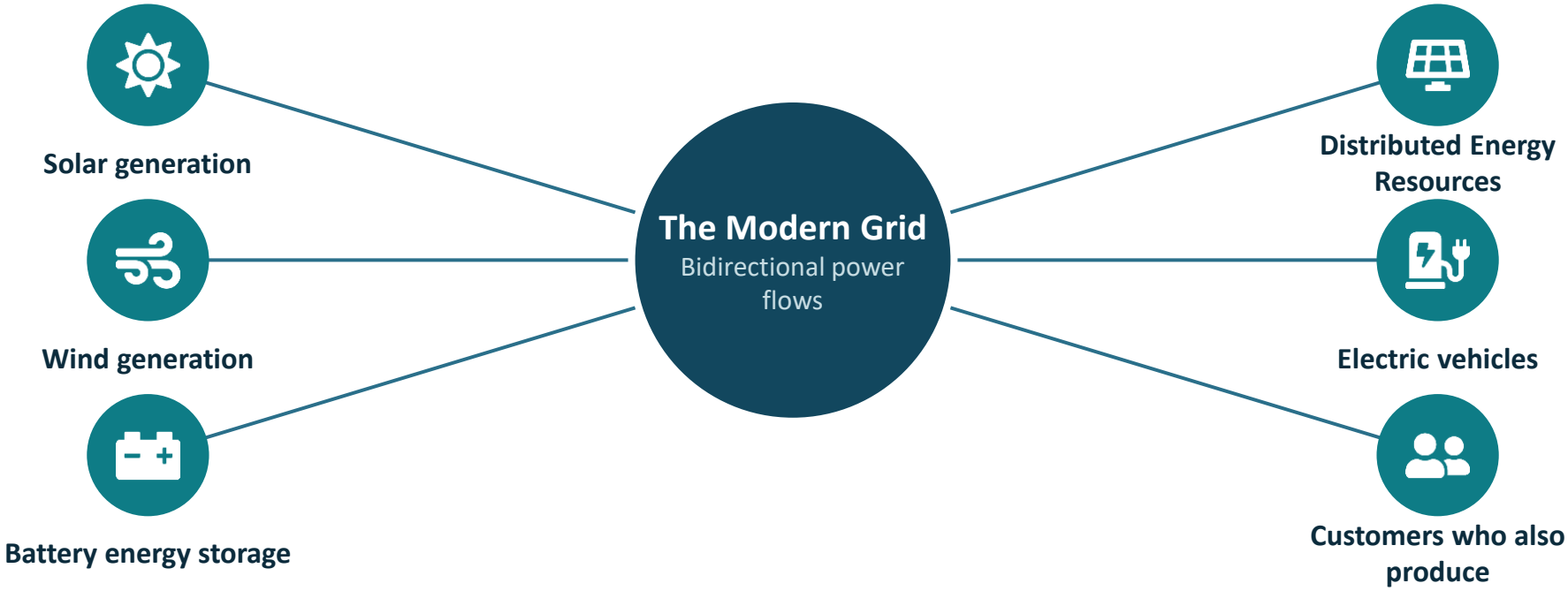
One-way power flow

Predictable demand growth

Limited operational complexity

The Grid We Are Managing Today

More Distributed. More Dynamic. More Complex.



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The Executive Challenge

More Expectations. Same Resources.

- **Aging infrastructure**
- **Aging workforce**
- **Increasing electricity demand**
- **Extreme weather events**
- **Reliability expectations**
- **Budget constraints**



UTILITIES MUST BALANCE

Growing challenges against limited resources

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Why Rip-and-Replace Isn't the Answer

Modernization Must Be Practical

- **Operational risk increases during replacement**
- **Full replacement is costly**
- **Large projects take years**
- **Existing assets still provide value**



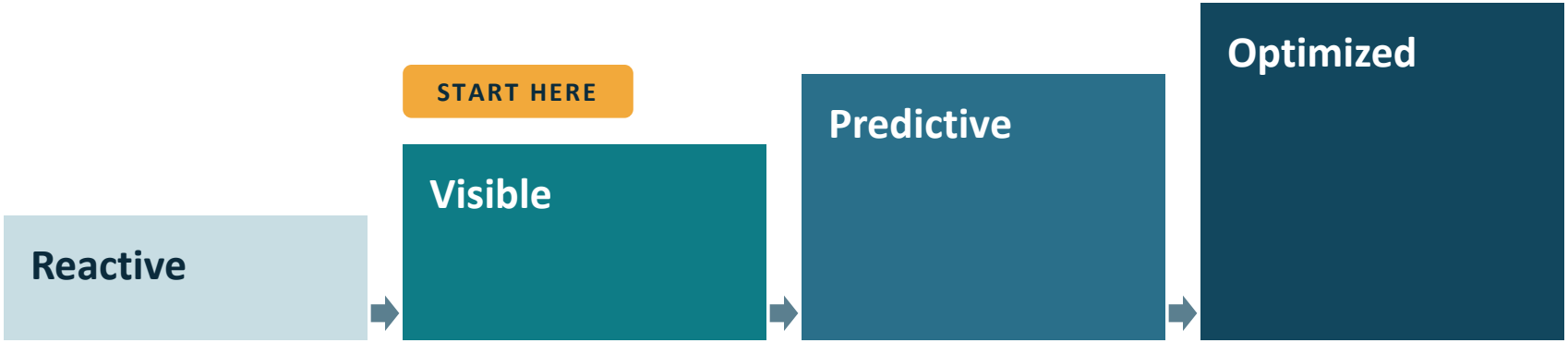
KEY QUESTION

How do we make existing assets smarter?

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Modernization Begins with Visibility

If You Can't Measure It, You Can't Manage It



KEY ENABLERS

- Real-time data
- Remote visibility
- Situational awareness
- Operational intelligence

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Technology as a Business Enabler

What Modern Utilities Can Achieve



Real-Time Visibility

Understand system conditions as they happen.



Remote Monitoring & Control

Reduce response times and improve efficiency.



Predictive Maintenance

Identify issues before failure occurs.



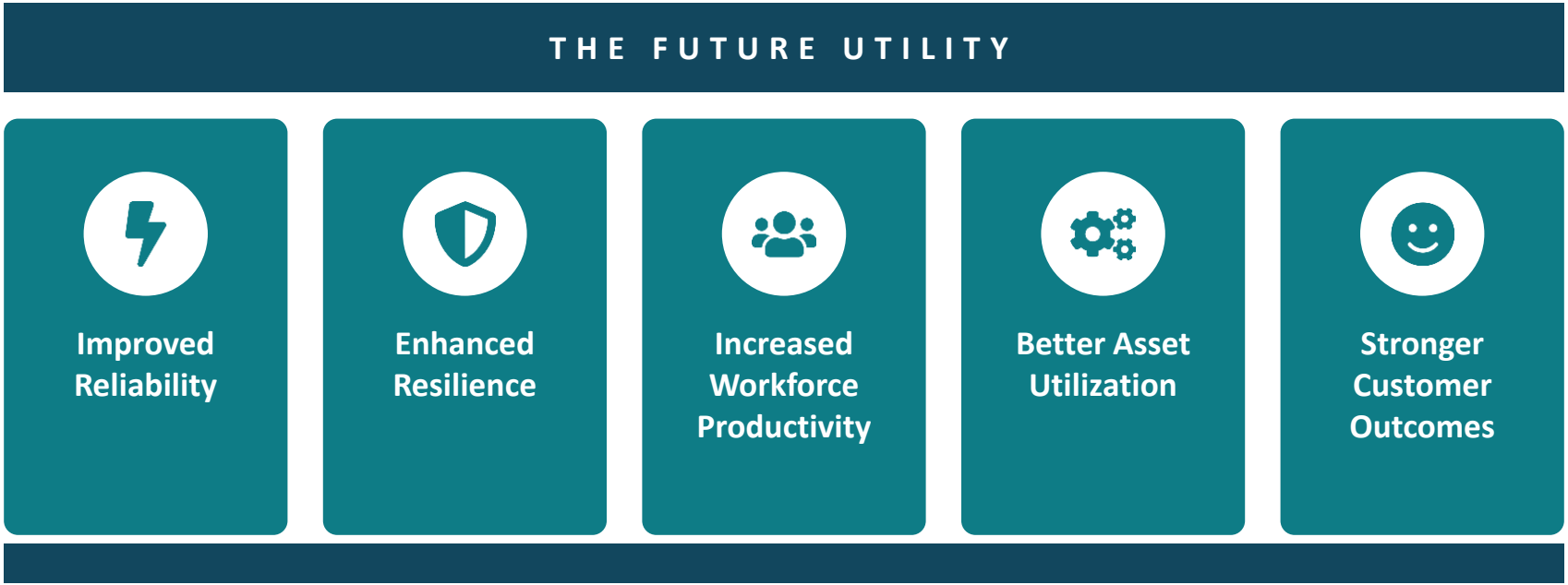
Grid Automation & Self-Healing

Restore customers faster.

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The Outcomes That Matter

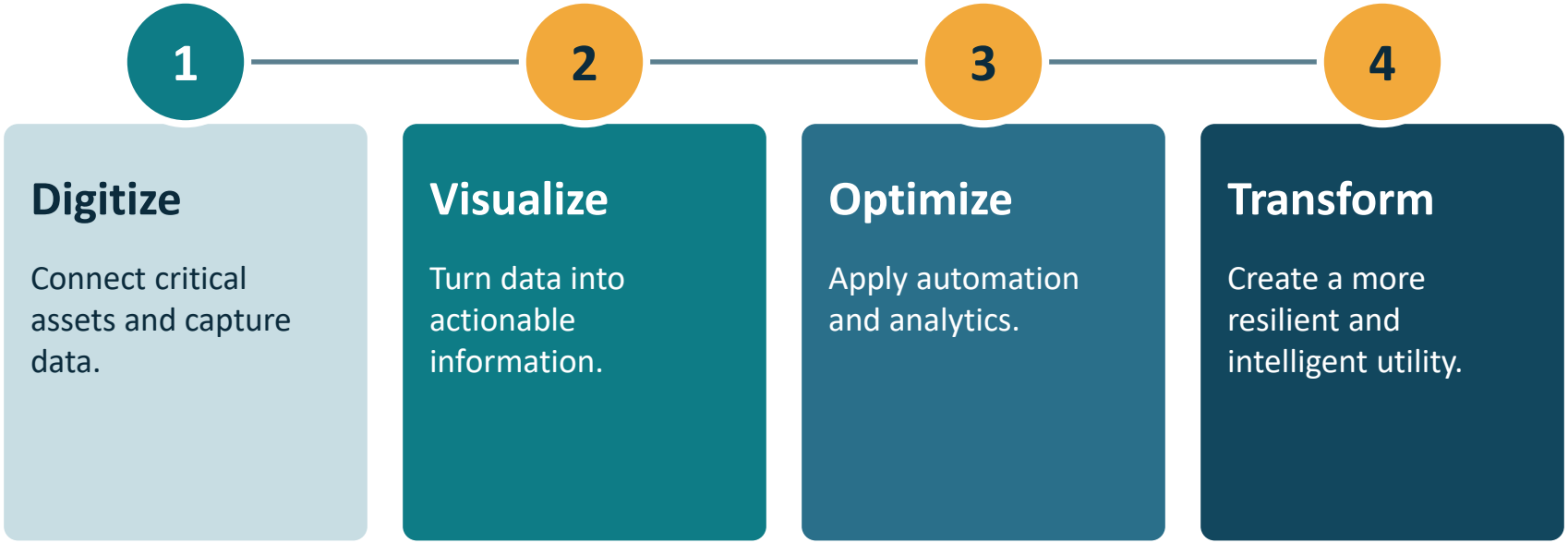
The Business Case for Modernization



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A Practical Modernization Roadmap

Start Small. Scale Smart.



Modernization is a journey, not a single project.

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Summary

Key Takeaways

The grid has changed

From centralized and one-way to distributed and two-way.

Pressure is rising

Aging assets and workforce, growing demand, tight budgets.

Upgrade, don't replace

Make existing assets smarter instead of rebuilding.

Visibility comes first

Measure before you automate or predict.

Outcomes drive the case

Reliability, resilience, productivity, assets, customers.

Start small, scale smart

Digitize, Visualize, Optimize, Transform.

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Thank You

Questions and discussion



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