



Connected Lighting – The New Frontier

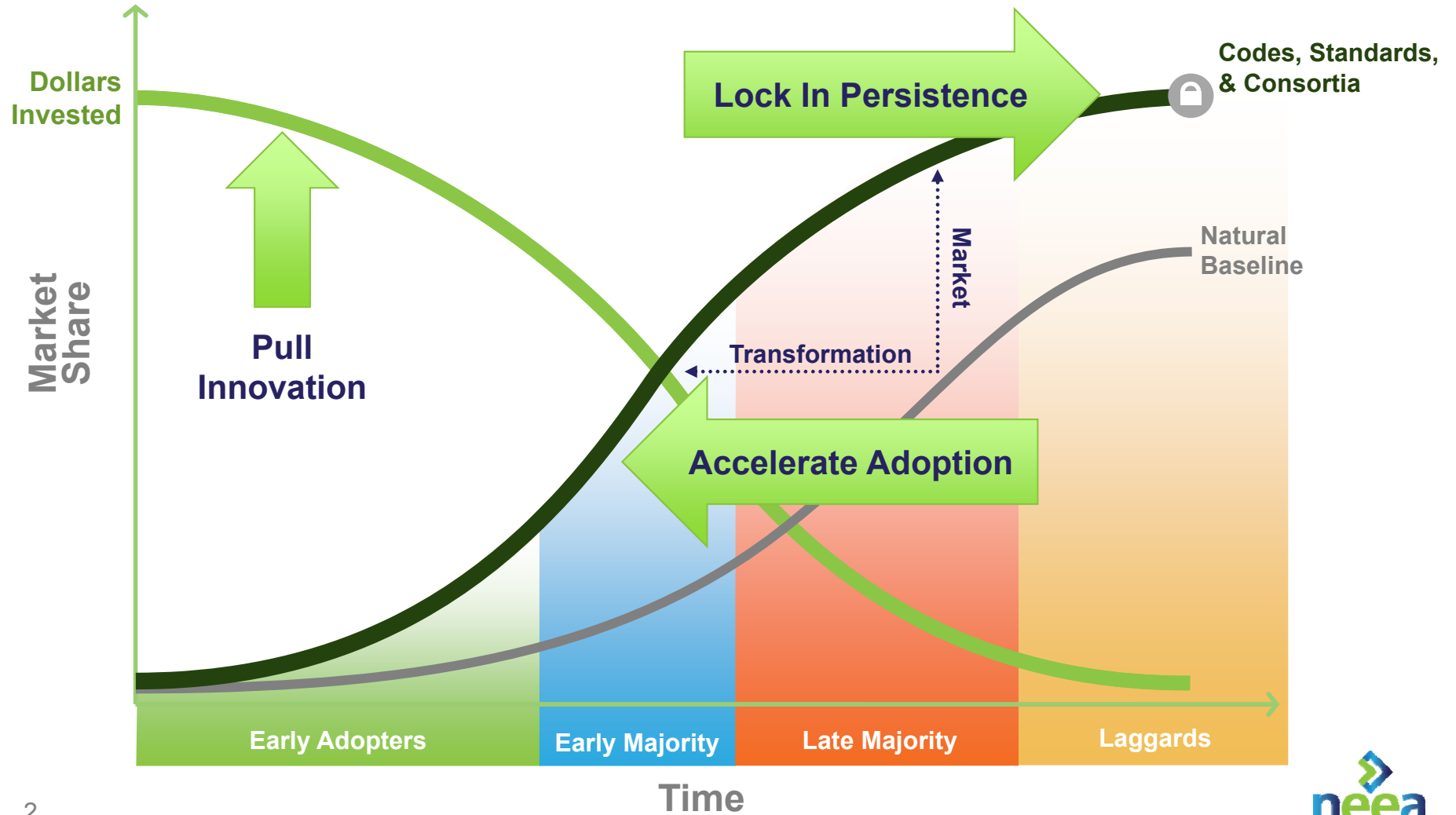
ACEEE MT Symposium

Kelly Sanders, Senior Product Manager
Emerging Technologies Group

NORTHWEST ENERGY EFFICIENCY ALLIANCE

NEEA – A Transformational Focus

How Does MT Happen?



Connected Lighting... The New Frontier

The Future...

Will be a Sprint

Will be **CONNECTED!!!**

Will be **INTEGRATED**

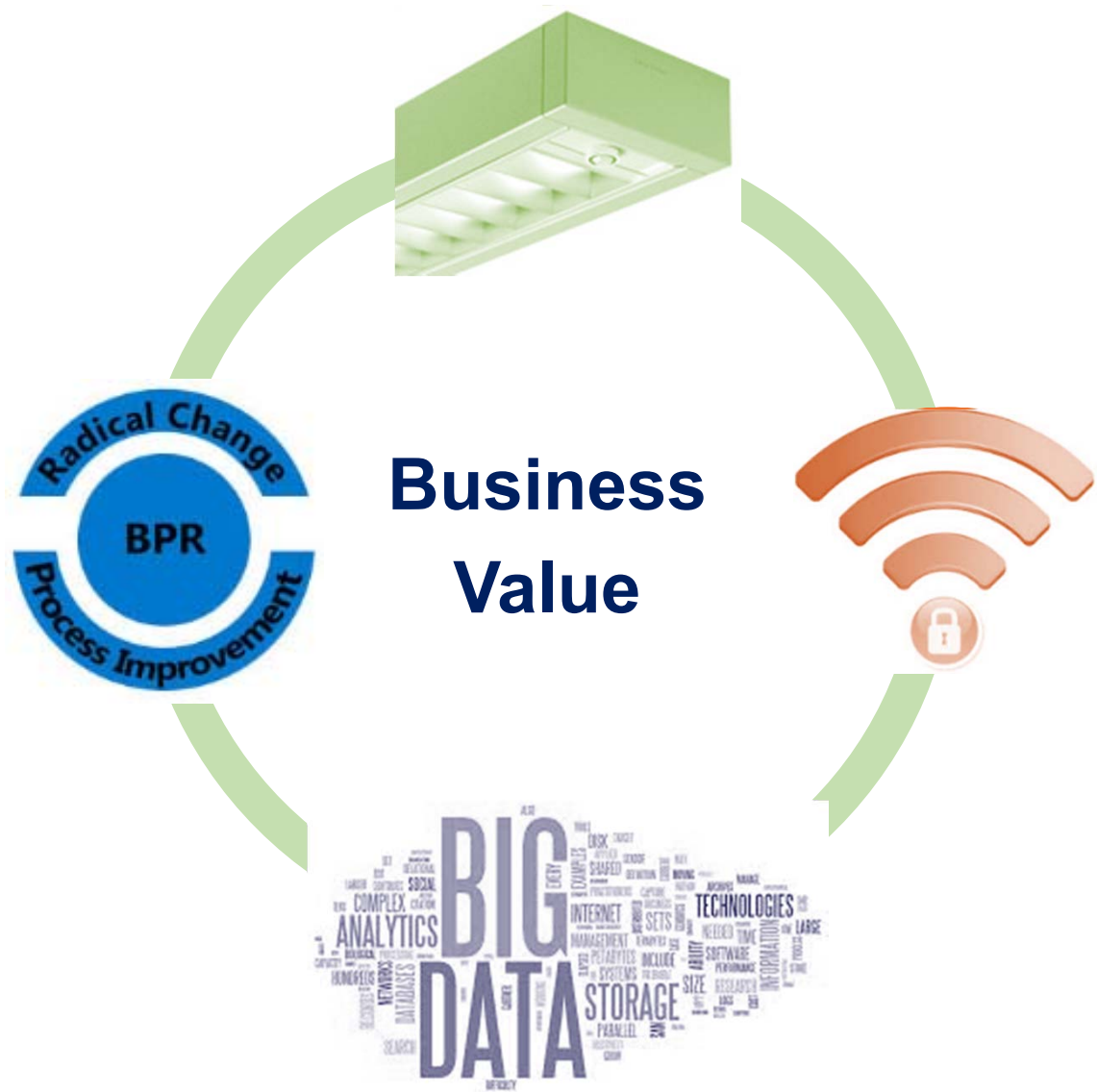
Will be about **DATA & MIDDLEWARE**

Will be about **PROCESSES**

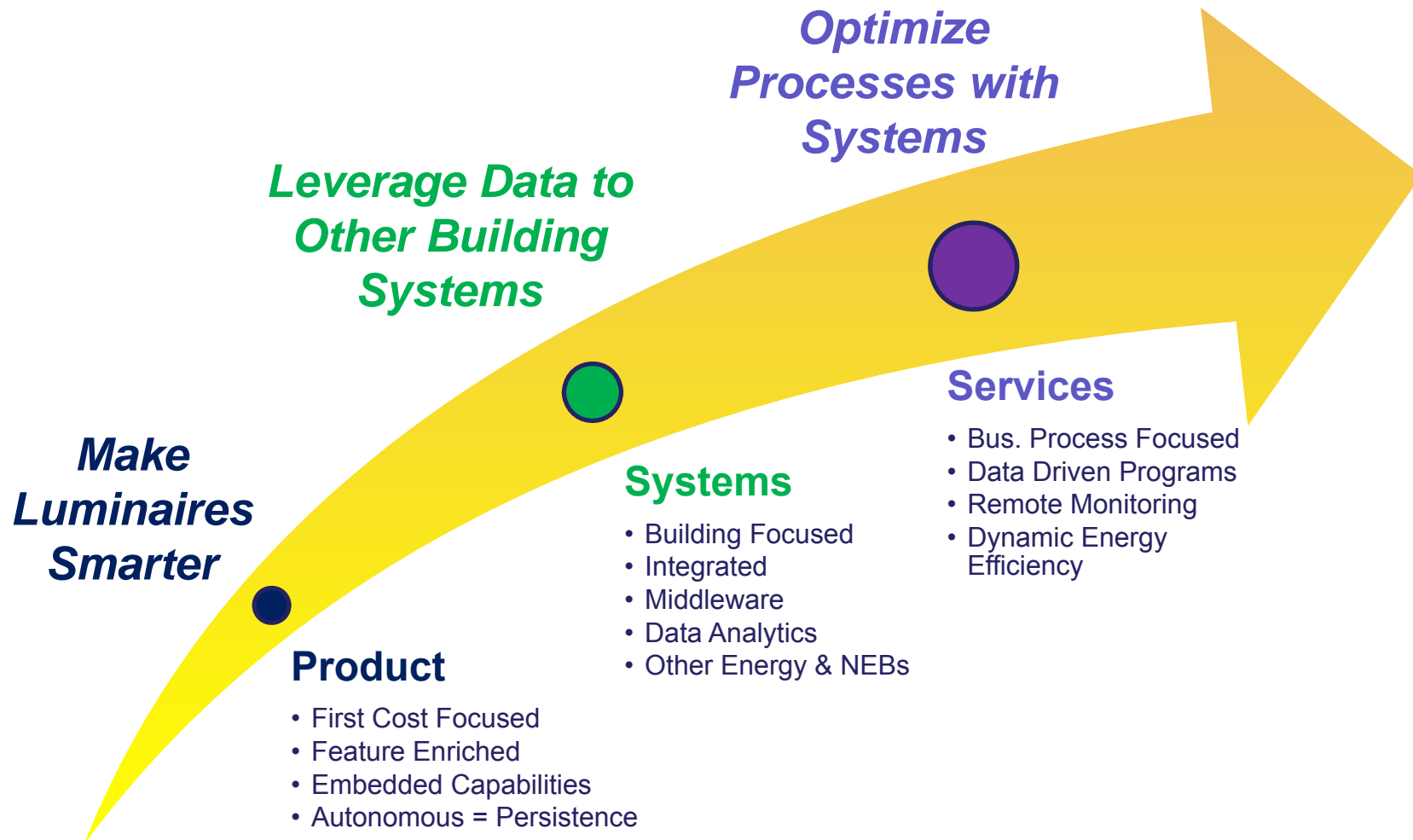
Will be about **INTERFACE DESIGN**

Will be about...

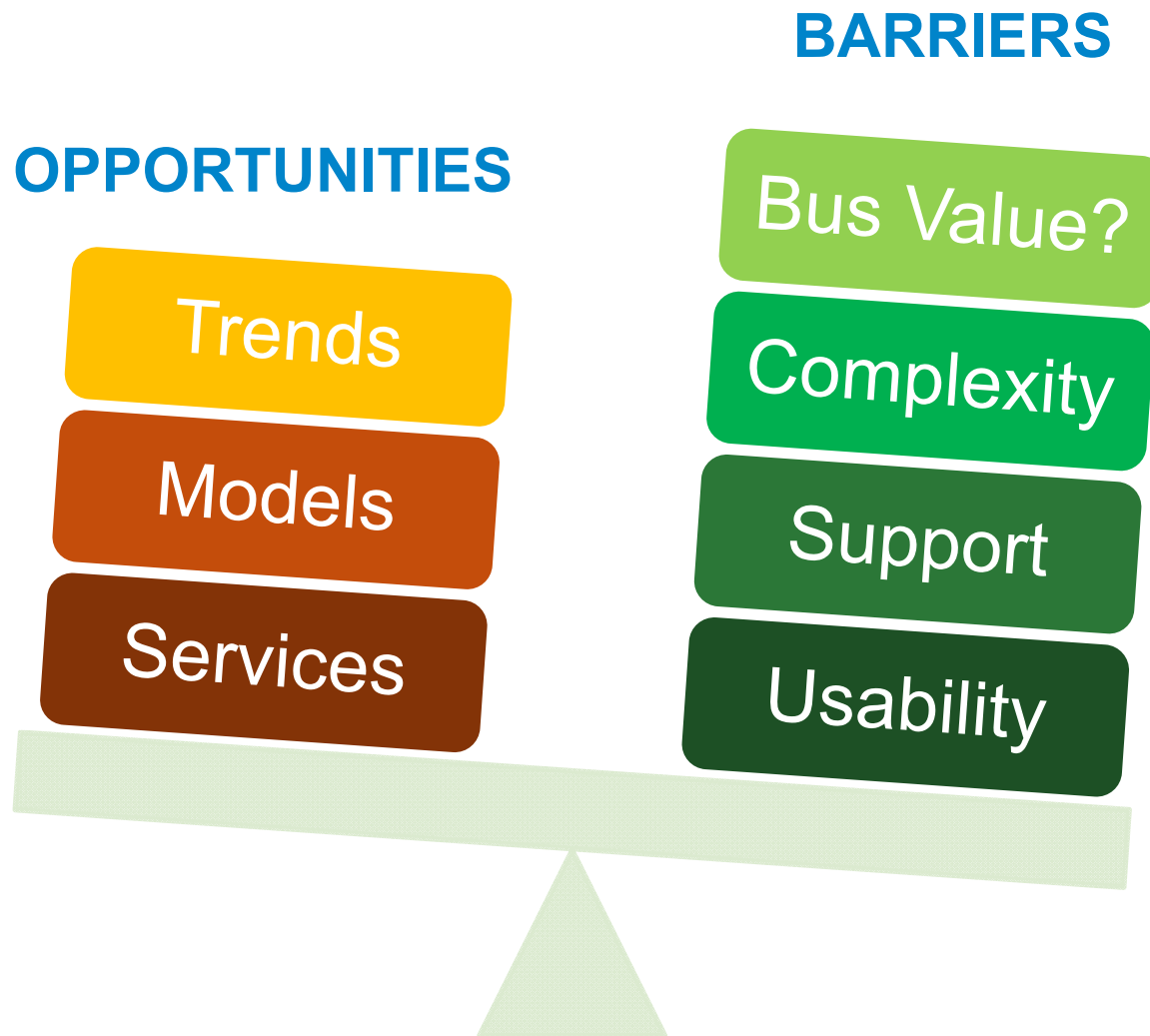
Connected Lighting – Systems/Services



A Possible Adoption Path...



...but How To Make This Happen?



Disruptive Trends in the News

“A Strategic Inflection Point is that which causes you to make a fundamental change in business strategy. Nothing less is sufficient.”
Andrew Grove - Intel



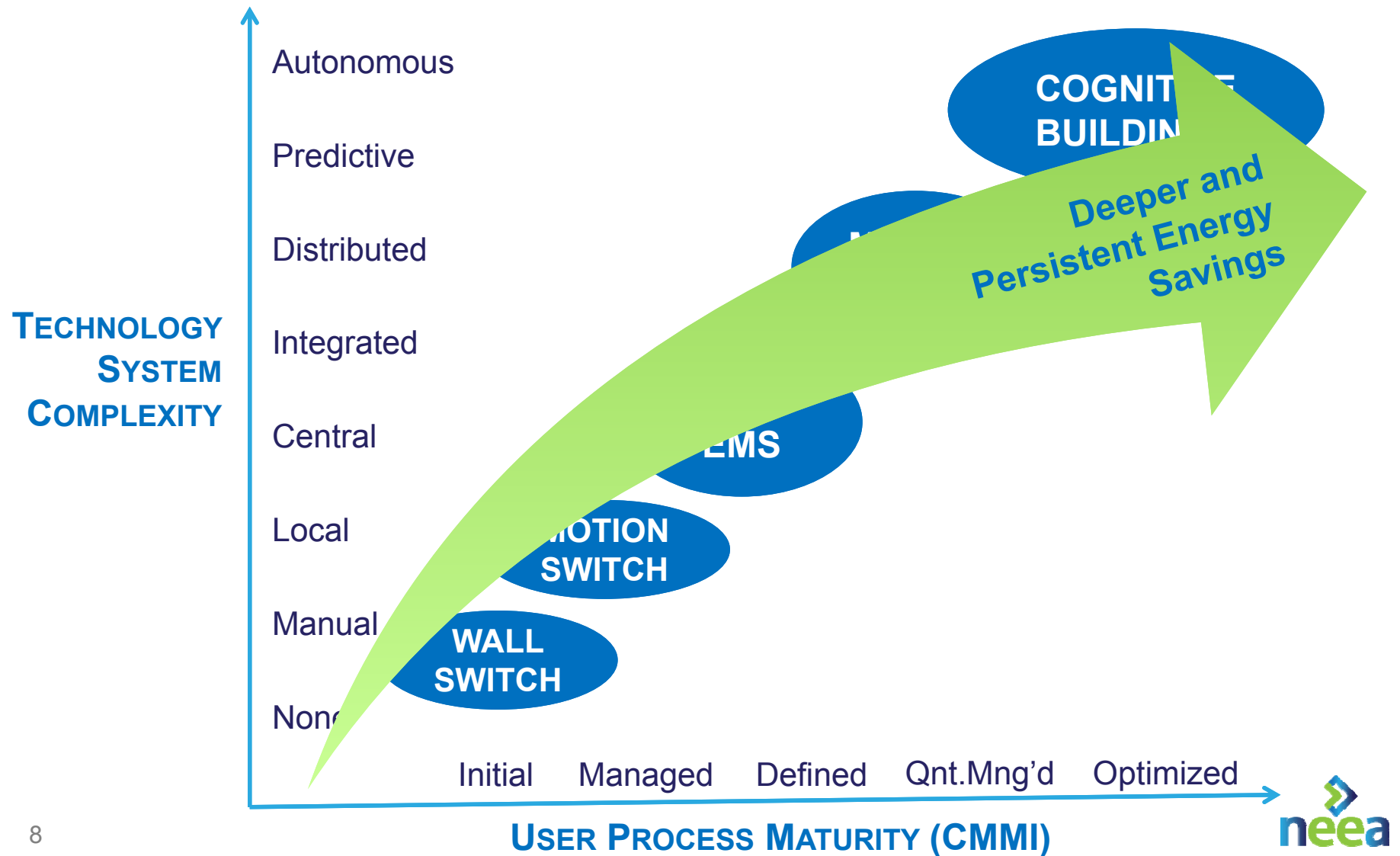
2014 will be an inflection point for Big Data and the Internet of Things: Srinivas Tadigadapa, Intel

by **Srinivas Tadigadapa**, Intel, January 2, 2014

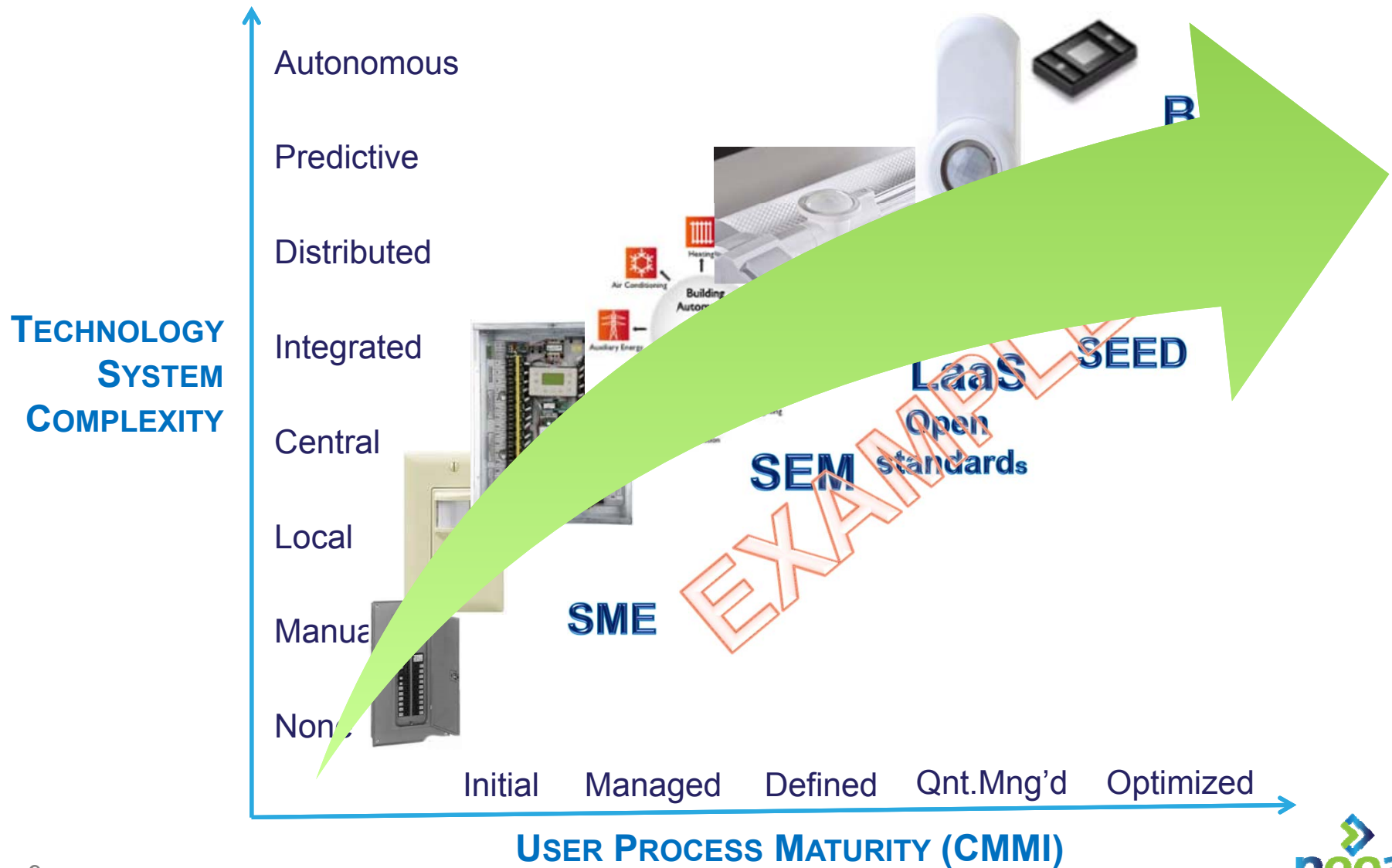
Downstream players will have the greatest potential to generate value, particularly when demand for distributed generation hits an inflection point after 2015. **McKinsey**

The Internet of Things' inflection point
The convergence of six factors is creating a climate for mainstream IoT adoption.
by Barb Edson | Comment | June 24, 2014

Complex Systems Maturity Model



Complex Systems Maturity Model



**Product placement is anecdotal only, at a point in time AND will change quickly.*



The Future? Data Driven Programs

The ~~Internet~~ **Energy** of Things: the real-time capability of electrical devices to converse with us about their energy use and needs.

Services!

Pay for Performance

Power Purchase

Carbon Counting

Grid Stability

Deep Retrofit Financing

Program Persistence

Remote M&V

Power Quality Monitoring

Demand Response

Distributed Energy Resources

Training as a Service

Energy Efficiency as a Service

Predictive Maintenance

Putting It All Together

What would your programs look like if you had all the real-time energy data you wanted?

- 1 Step One:** Enable Tomorrow! Focus on **CONNECTED** devices which are Autonomous, Interoperable, and 'Speak Energy'.
- 2 Step Two:** Move to Data-Driven Programs by supporting Open Communications and Data Standards.
- 3 Step Three:** Focus on Driving Lasting Business Value through Process Maturity equal to System Complexity.

Questions & Comments

Filling the
Energy
Efficiency
Pipeline

Accelerating
Market
Adoption

Leveraging
Regional
Advantage



Thank You!

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