



Conditions of a Sustainable Transformation

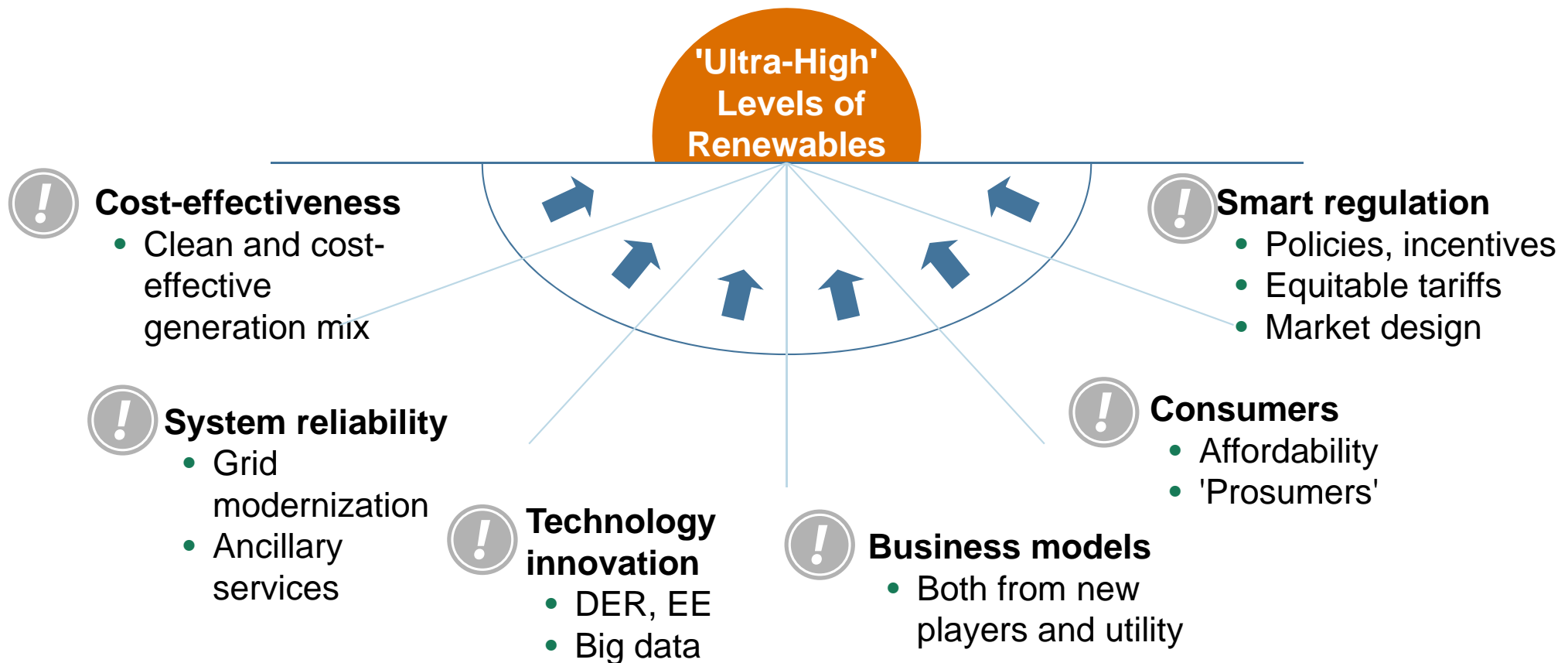
Laszlo Korsos (BCG Project Leader)

NASEO Annual Meeting, San Diego

September 15, 2015

THE BOSTON CONSULTING GROUP

Ambitious goal requires smooth interplay of six areas to achieve sustainable renewable transformation

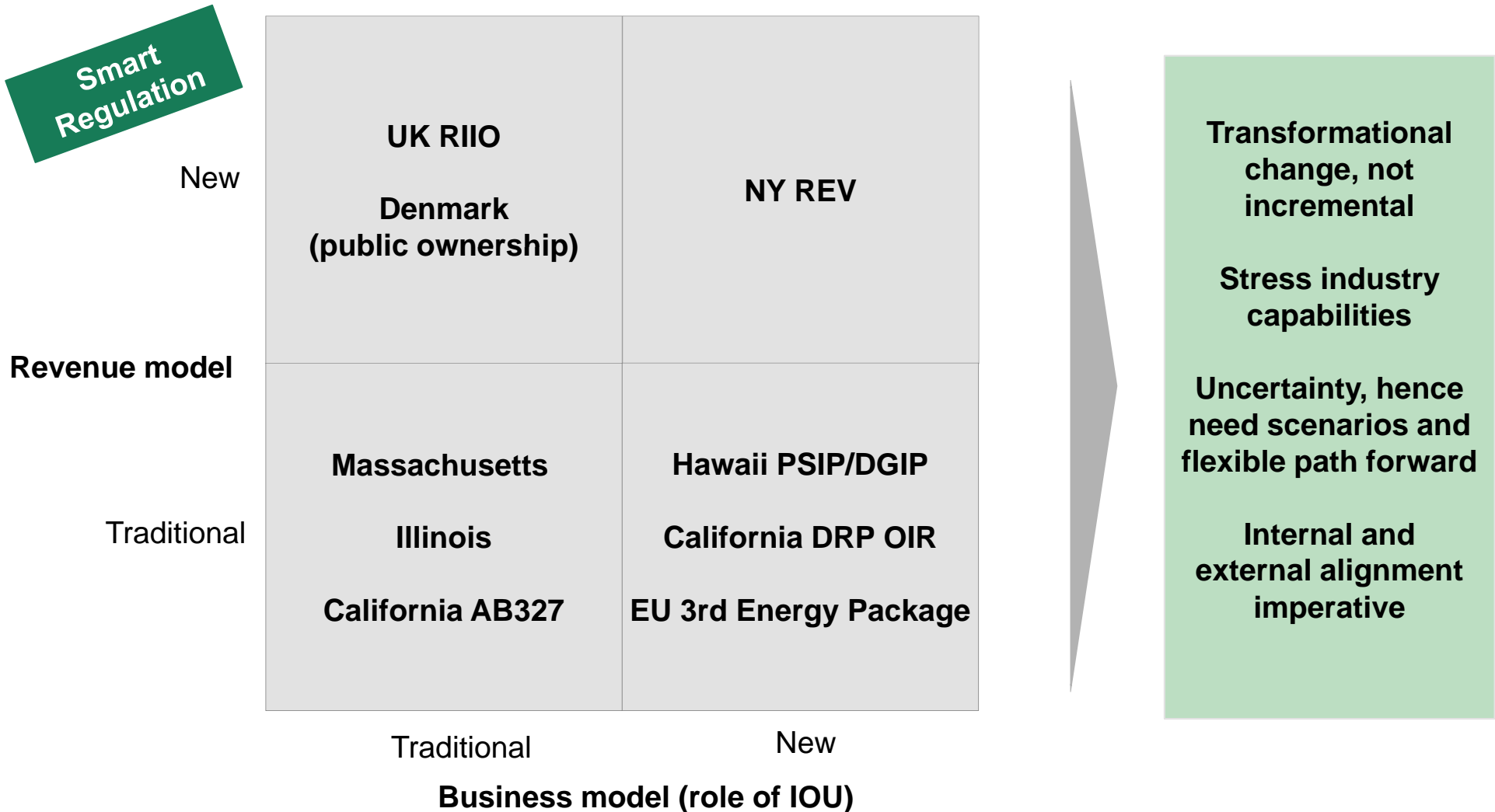


Industry, consumers and regulators need to cooperate in the transformation journey

Key challenges to be aware of and transparently address during the journey

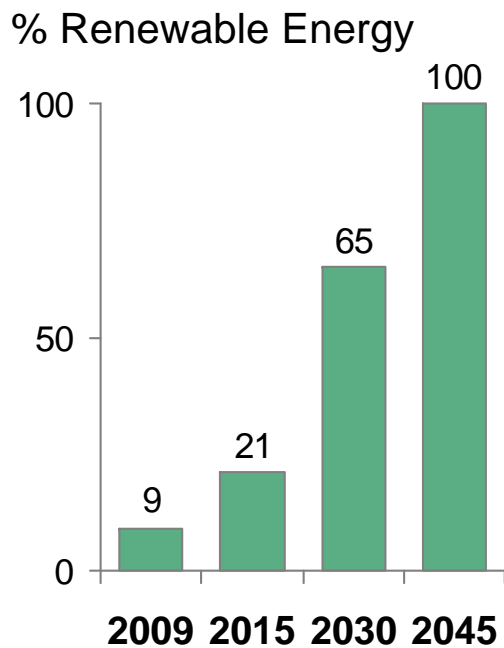
Cost-effectiveness	Cost-effectiveness and steps of renewable increase
System reliability	Reliability, resiliency and investment costs
Technology innovation	Conventional, centralized and distributed technologies
Business models	Regulated utilities and new market players
Consumers	Consumers and prosumers
Smart Regulation	All above plus speed, fairness and costs

Regulatory initiatives to embrace transformation do impact both business models and revenue models

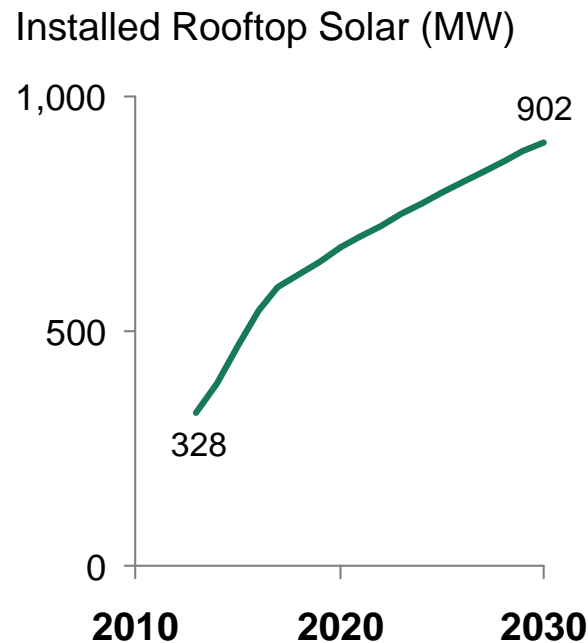


No clear solution yet but ongoing initiatives will provide critical learnings for transformation

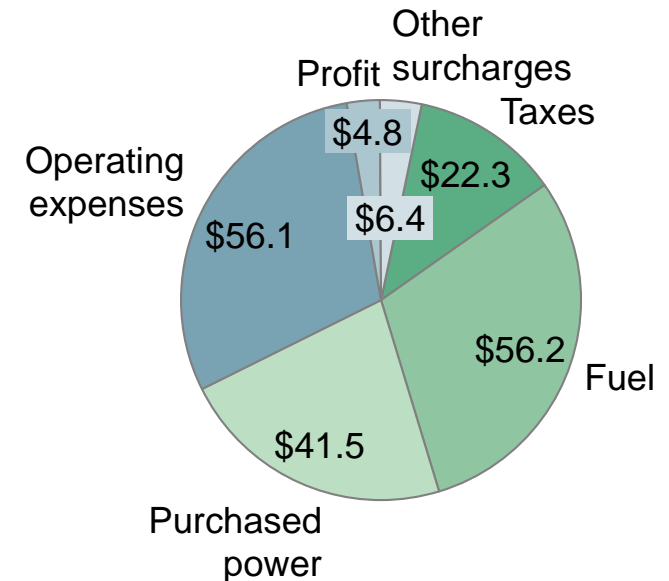
Transformation example: Utility defined vision and path towards a clean and affordable energy future for Hawai'i



- **National leader** in renewable energy
- **100% renewable share by 2045**



- **Highest penetration** of rooftop solar in US
- **~3x installation growth** by 2030
- **Community solar**



- **Affordable energy** for all customers
- **~20% bill reduction** by 2030



Thank you

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