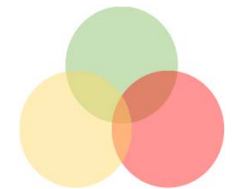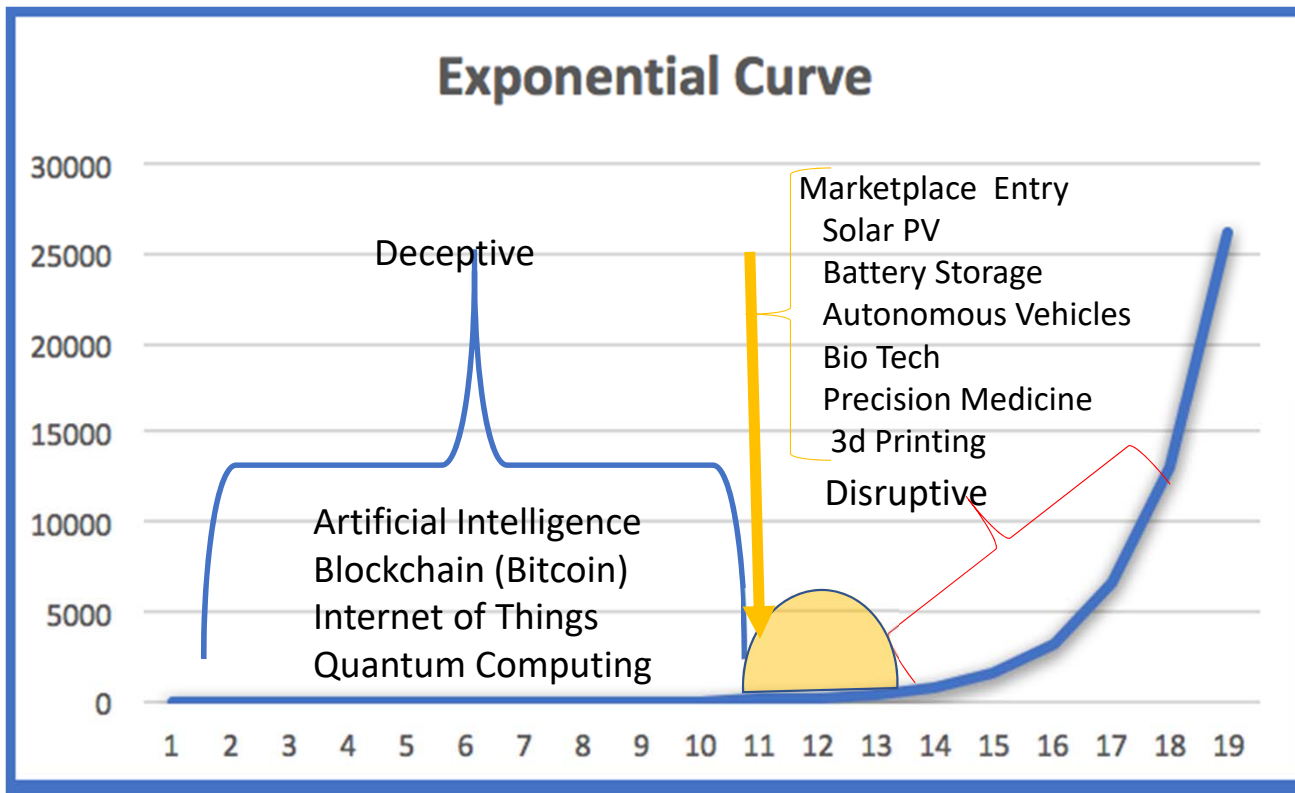# The PRECorp Moonshot

Riding Accelerating Technologies

The Power of Accelerating Technologies (aka Exponentials)

- Accelerating Technologies ride the theory of Moore's Law which means that the price/performance ratio of a product or system doubles in a short, predictable, and reoccurring timeframe.
- There six stages called the "6 D's" of Accelerating technologies that describe the process and impacts they create
  - Digitized
  - Deceptive
  - Disruptive
  - Dematerialize
  - Demonetize
  - Democratize

The Power of Accelerating Technologies

Exponential Curve

Deceptive

Marketplace Entry
Solar PV
Battery Storage
Autonomous Vehicles
Bio Tech
Precision Medicine
3d Printing

Disruptive

Artificial Intelligence
Blockchain (Bitcoin)
Internet of Things
Quantum Computing

What happens with an initial value of 1 in an exponential or accelerating series?

Initial value = 1
Value after 10 doublings-1024
Value after 20 doublings-1,048,576
Value after 30 doublings-1,073,741,824
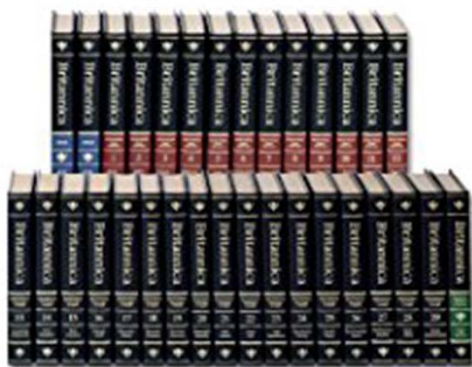
Disrupted Businesses
Kodak, Blockbuster
Taxi,
Travel Agents
Encyclopedia

Demonetize, Dematerialize, Democratize

The Stages of 6 D's-Threat or Opportunity?

PRECorp has been experiencing the power of accelerating technologies without really focusing on how to drive value by intentionally riding the wave of exponentials.
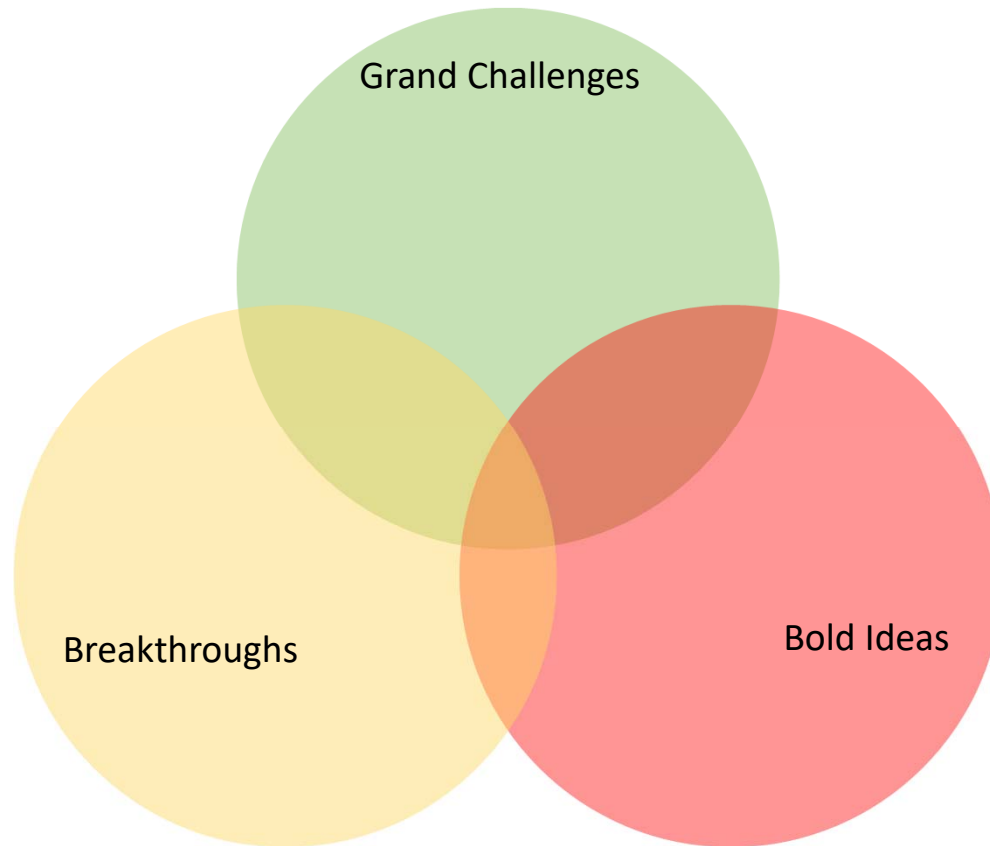
- Smart Grid
- SCADA
- Document Vault
- Convene
- AMR and AMI
- GIS/Staking
- Direct Deposit
- Smart Hub
- iDashboards
- IVR/Kiosk
- Outage Management System

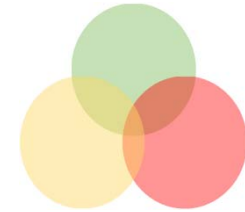This is how we have been able to reduce costs while maintaining service quality.

PRECorp's reason for existence is to provide value and serve its membership…

How might we leverage the power of accelerating technologies by <u>intentionally</u> riding the wave of accelerating technologies to the greatest benefit for our member owners?
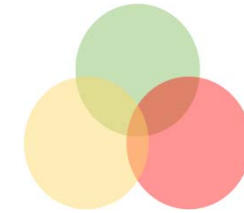
Moonshot thinking lies at the intersection of Grand Challenges, Bold Ideas, and Breakthroughs

Using "Moonshot" Thinking

- Create a PRECorp Moonshot goal with a long horizon
- Look out to a the midpoint of the horizon to see what is possible to accomplish while aligning with the Moonshot
- Align the PRECorp's Strategy Execution System and Governance/Policy to accomplish midpoint horizon
- Continue to execute, monitor, adapt, revise Strategy so that PRECorp is "skating to the puck"
- Revisit our policy and governance practices to align with Moonshot thinking
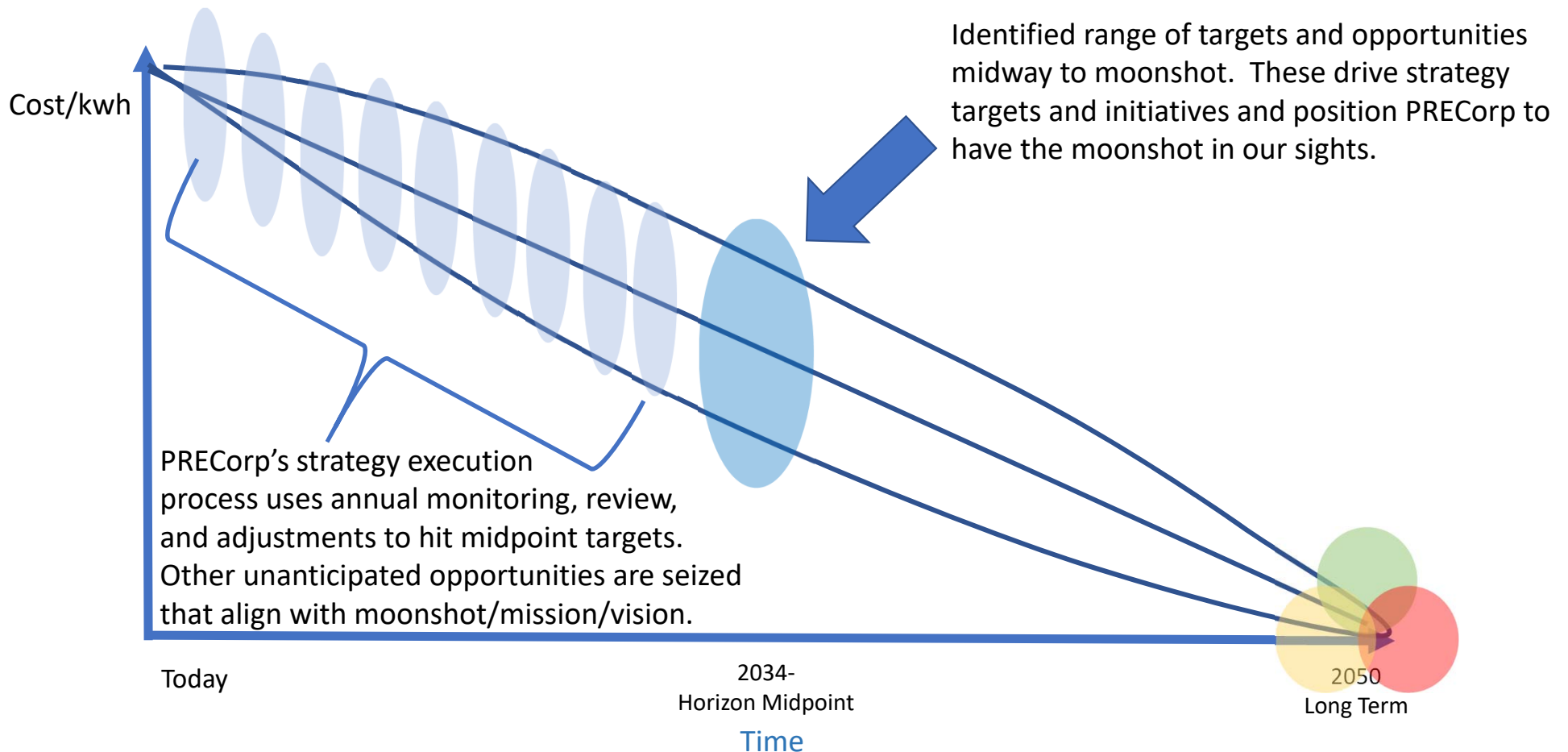
Our Moonshot

..... Drive down costs so that the first megawatt hour of energy usage is at our near zero by 2050...

It has the power to accelerate change, shift perspectives, create new opportunities and radically change the way we think **without radically changing** our mission of service to our members.

Drive down costs so that the first megawatt hour of energy usage is at our near zero by 2050

Cost/kwh

Identified range of targets and opportunities midway to moonshot. These drive strategy targets and initiatives and position PRECorp to have the moonshot in our sights.

PRECorp's strategy execution process uses annual monitoring, review, and adjustments to hit midpoint targets. Other unanticipated opportunities are seized that align with moonshot/mission/vision.

Today

2034-
Horizon Midpoint

Time

2050
Long Term

Process to explore and to ride accelerating technologies to decrease cost and increase performance

Identify cost areas
- Distribution Operations
- Distribution Maintenance
- Transmission Operations
- Transmission Maintenance
- Capital Additions
- Administration
- Power Supply
- Regulation
- Member Services

Identify and unpack cost drivers
- Maintenance Activities
- Outage Response
- Basin Rates
- WPSC Regulatory process
- Permitting
- Construction methods
- Design
- Member Communications
- Governance/Policy

Leverage 6 D's of Accelerating Technologies
- IoT (Sensors)
- SCADA
- Drone
- AI
- Advanced Energy Solutions
- 3D Printing
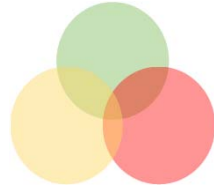- Smart Tech
- Digitization
- Blockchain

… Drive down costs so that the first megawatt hour of energy usage is at our near zero by 2050 …

Fine Tune Mission
Reimagine Vision
Realign Objectives
Refill Initiative Pipeline

It has the power to accelerate change, shift perspectives, create new opportunities and radically change the way we think **without radically changing** our mission of service to our members.