

**10 DECEMBER 2025**

# Finding the right energy management information system (EMIS) entry point

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# By the end of this workshop, you will be able to:



Assess your current state and desired end state for EMIS adoption



Identify key gaps and opportunities relative to the desired end state



Develop a practical pathway with a feasible entry point

# Follow along in the Participant Workbook!

Have the workbook open or printed out

## Where to find the workbook:

- Click the link in the chat
- Download a copy to your computer
- Open and follow along

Watch for this icon to help follow along





## Why finding the right entry point matters

# Same destination, different starting points



Building momentum starts with understanding where your organization is ready to act.

# Case 1: full EMIS installation

- High potential, high resistance
- Comprehensive EMIS design
- Full facility integration, dashboards, analytics
- Estimated cost: \$500,000
- Projected savings: uncertain at proposal stage

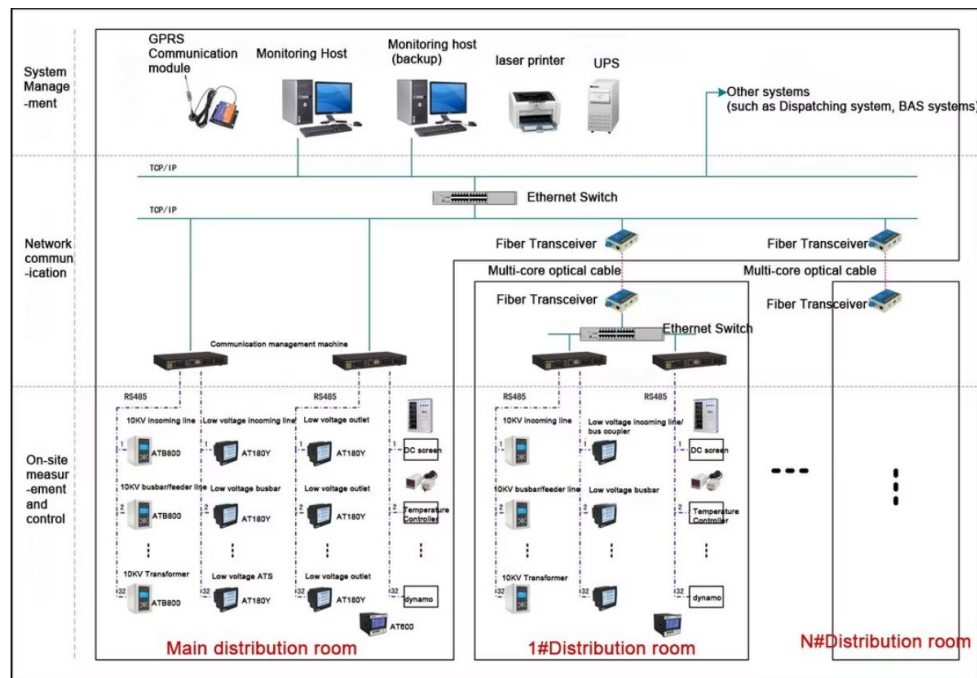


Image source: HANGZHOU ANTIN Technology

## Case 2: limited submetering as a strategic first step

- Targeted loggers of significant energy users
- Investment: \$10,000
- Manually collecting data



Image source: AEMC Instruments

# Two different paths, same destination

## Full EMIS approach

- Broad scope and high cost
- May face pushback if return on investment (ROI) uncertain
- Immediate full visibility
- Early discovery of energy savings and non-energy benefits
- High implementation complexity
- Strong executive mandate

## Entry point approach

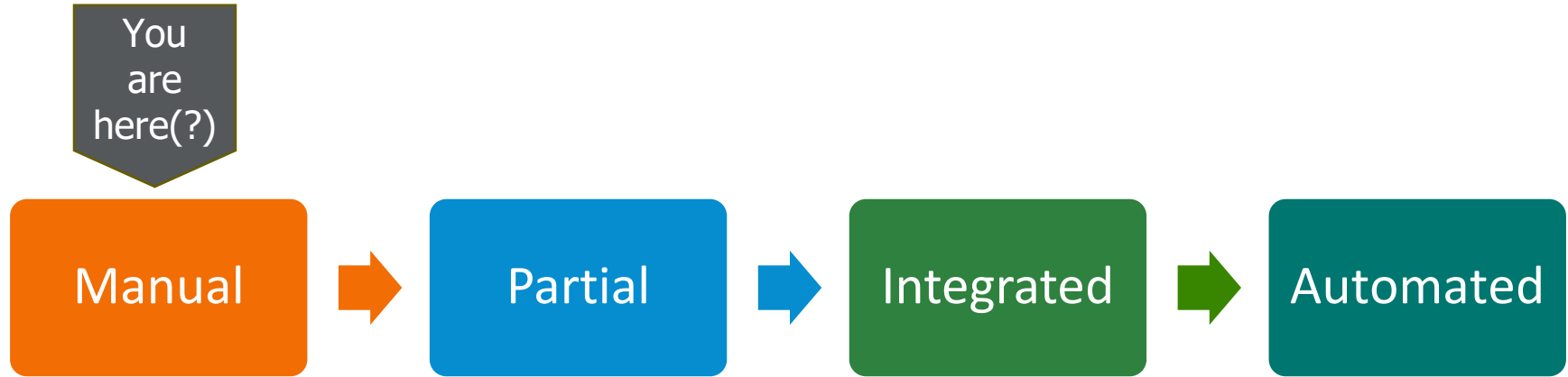
- Focused scope, lower cost
- Easy approval due to clear purpose
- Phased visibility that grows with success
- Low risk, fast to show value
- Builds mandate through proven results





# Mapping your EMIS maturity to determine your current state

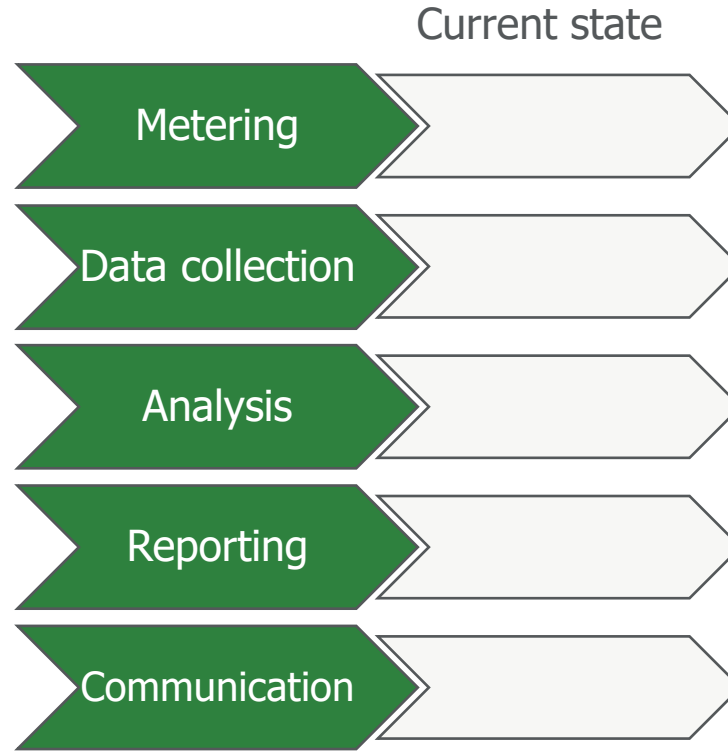
# EMIS maturity spectrum



# The five aspects of EMIS



# Rate your current state





## Define desired end-state vision

# Desired end-state vision

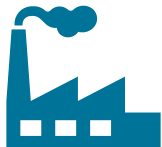


# EMIS vision should support your organization's priorities

- What features do you want?
- What impact should it have?
- How will it be aligned with organizational goals?



# What does an EMIS vision look like in practice?



- Identify efficiency opportunities
- Improve reliability by supporting predictive maintenance
- Support ISO 50001 compliance



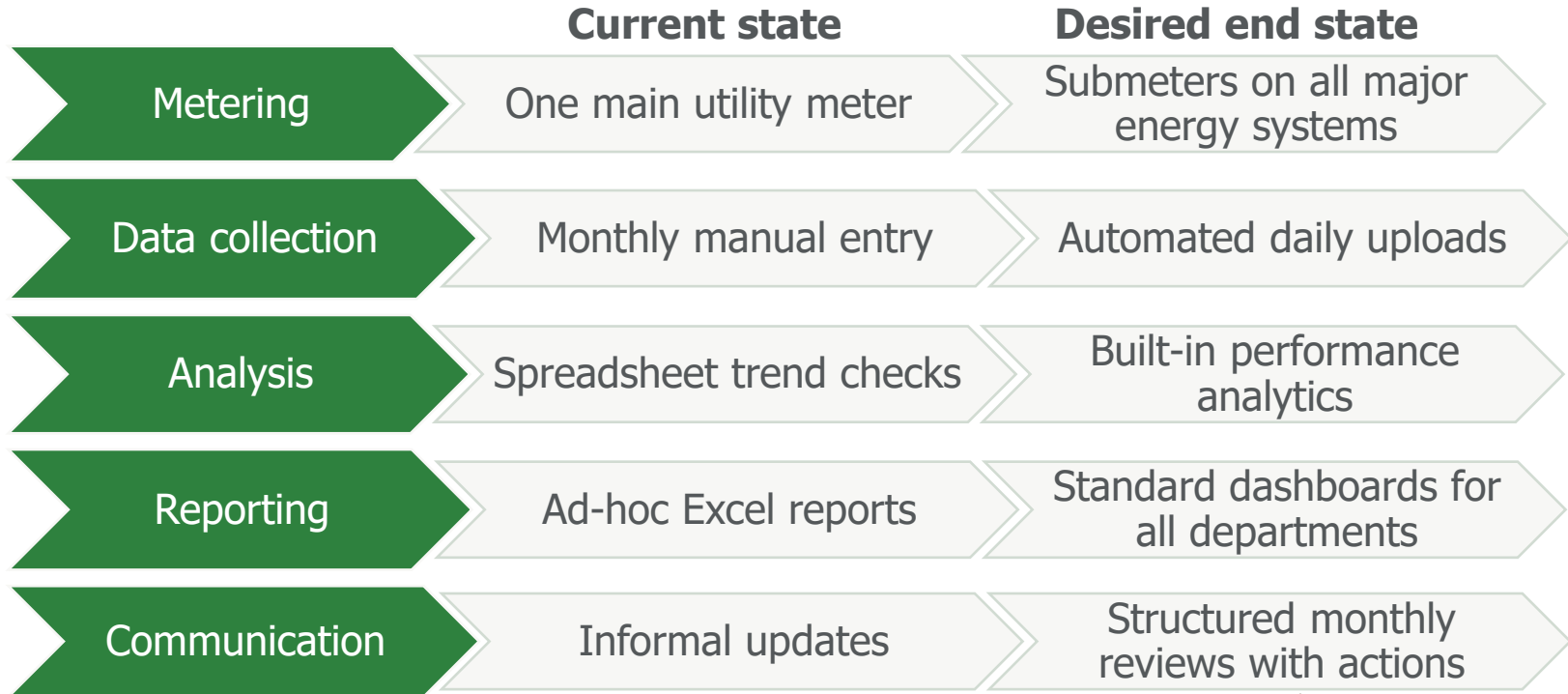
- Integrate with a building automation system (BAS) to maintain comfort
- Verify performance of efficiency measures like setbacks, occupancy controls, etc.
- Automatically report performance to management



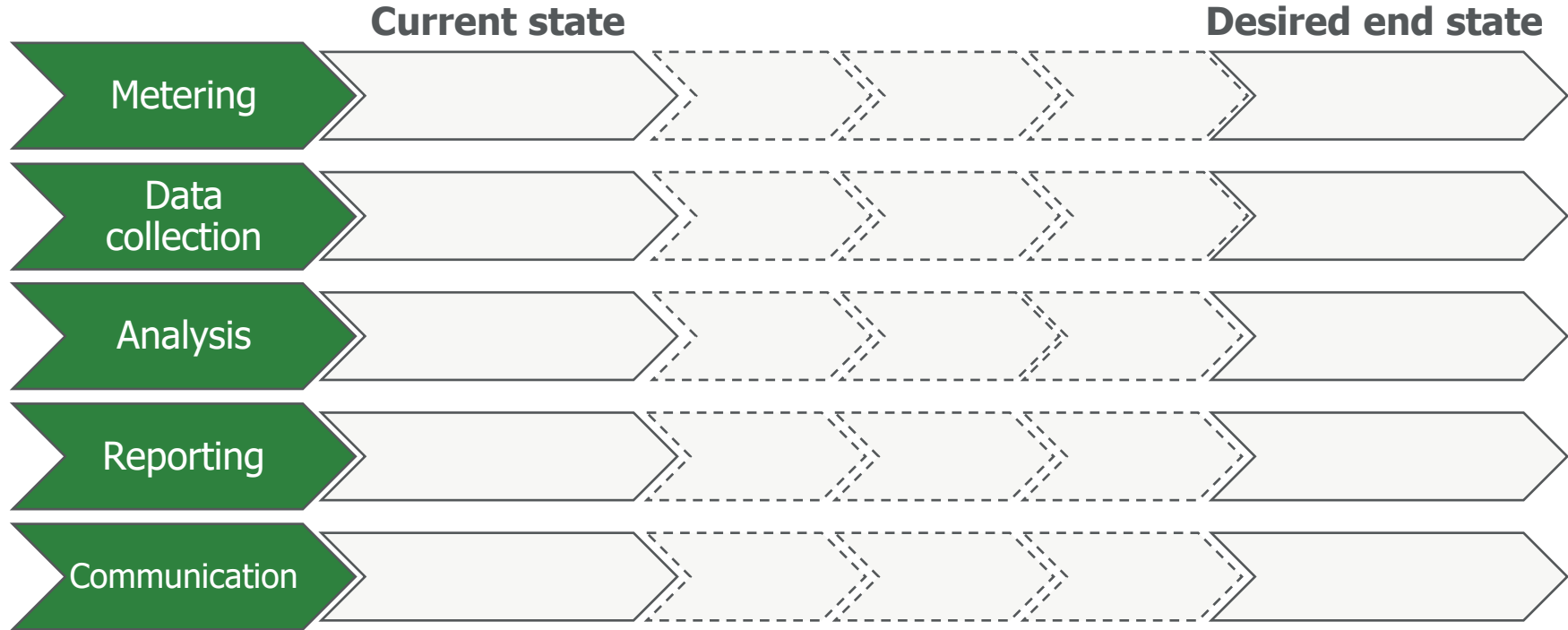
- Track energy intensity of all buildings
- Support maintenance efforts
- Engage staff and students and integrate with academia



# Example of current and desired end state



# Your desired end state across the five aspects

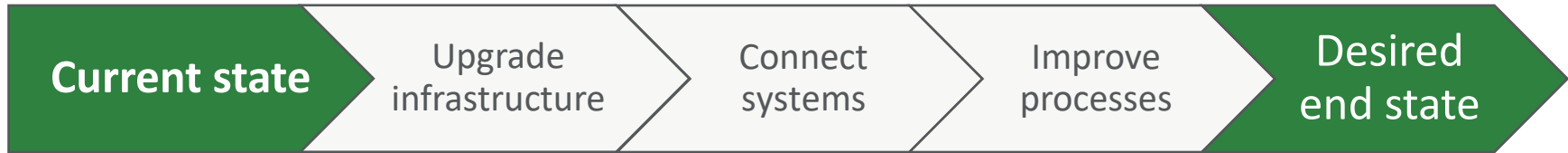




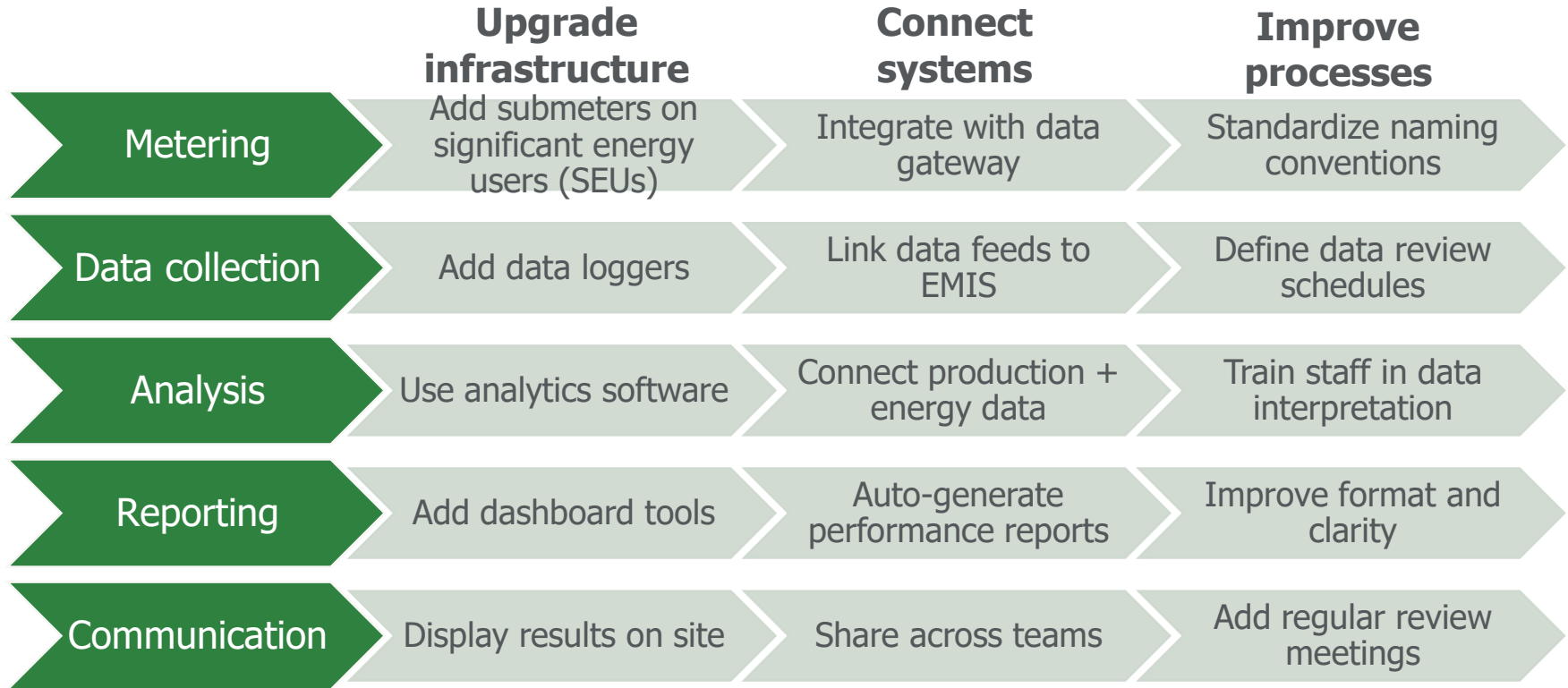
# Identifying and prioritizing gaps

# Three types of EMIS gaps

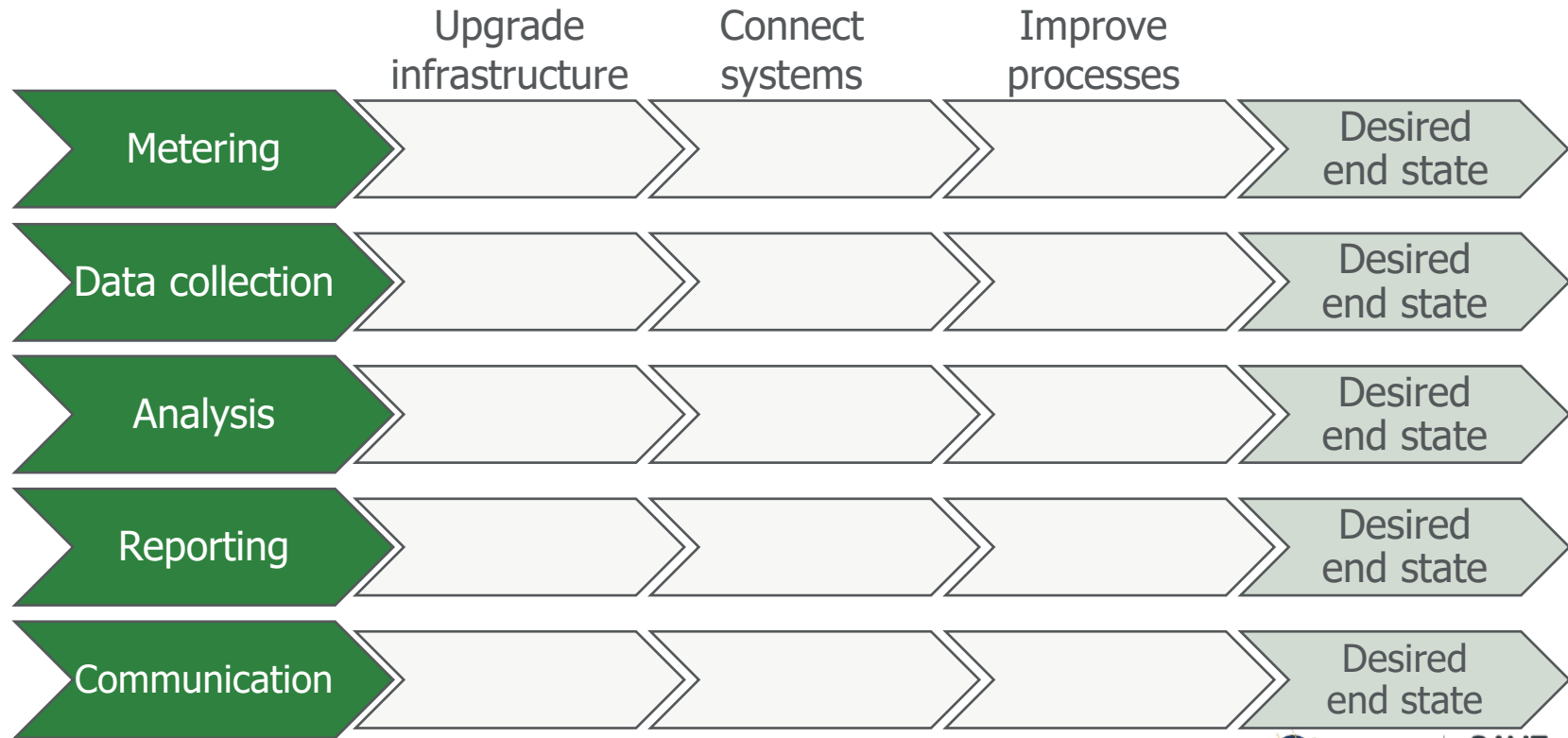
Gaps to be addressed to reach  
desired end state



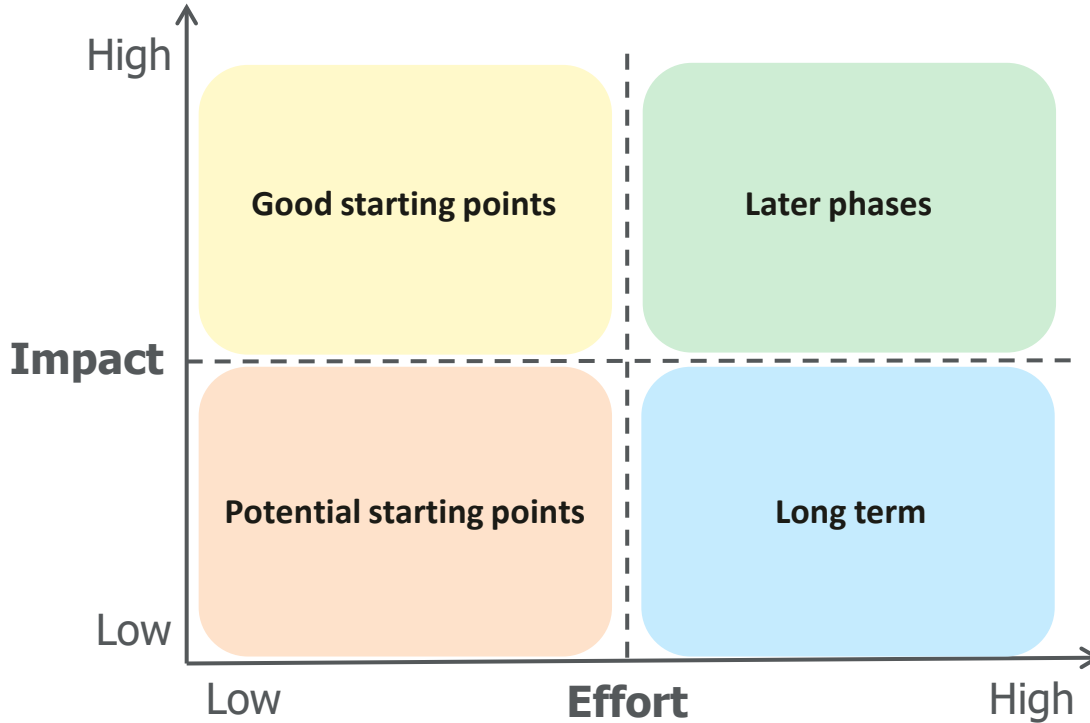
# Visualizing gaps - example



# Visualizing gaps



# Prioritizing which gaps to address first

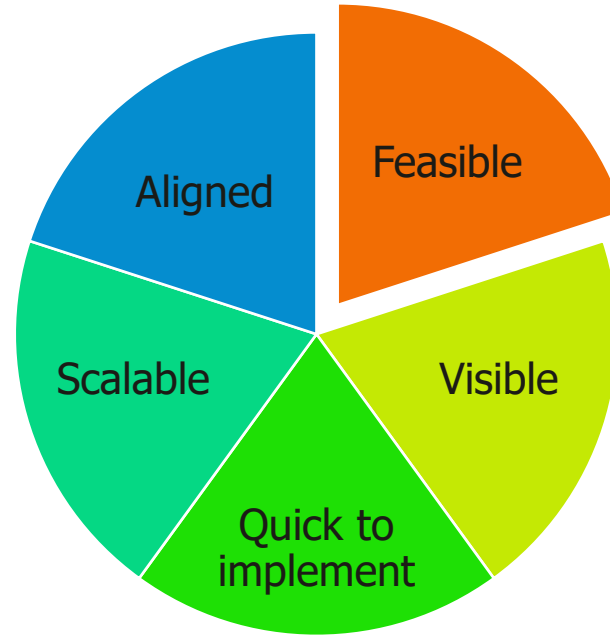




# Feasible entry point projects to overcome barriers



# What makes a strong entry point project



# Evaluate your entry point project options

	Yes	No
Can it be implemented with a limited budget?	<input type="checkbox"/>	<input type="checkbox"/>
Does it support existing priorities?	<input type="checkbox"/>	<input type="checkbox"/>
Does it build toward the desired end state?	<input type="checkbox"/>	<input type="checkbox"/>
Will it quickly deliver noticeable results?	<input type="checkbox"/>	<input type="checkbox"/>
Is it likely to get buy-in?	<input type="checkbox"/>	<input type="checkbox"/>

# Leverage incentives to strengthen your case



## Expanded Energy Management Program



### Energy management information systems (EMIS):

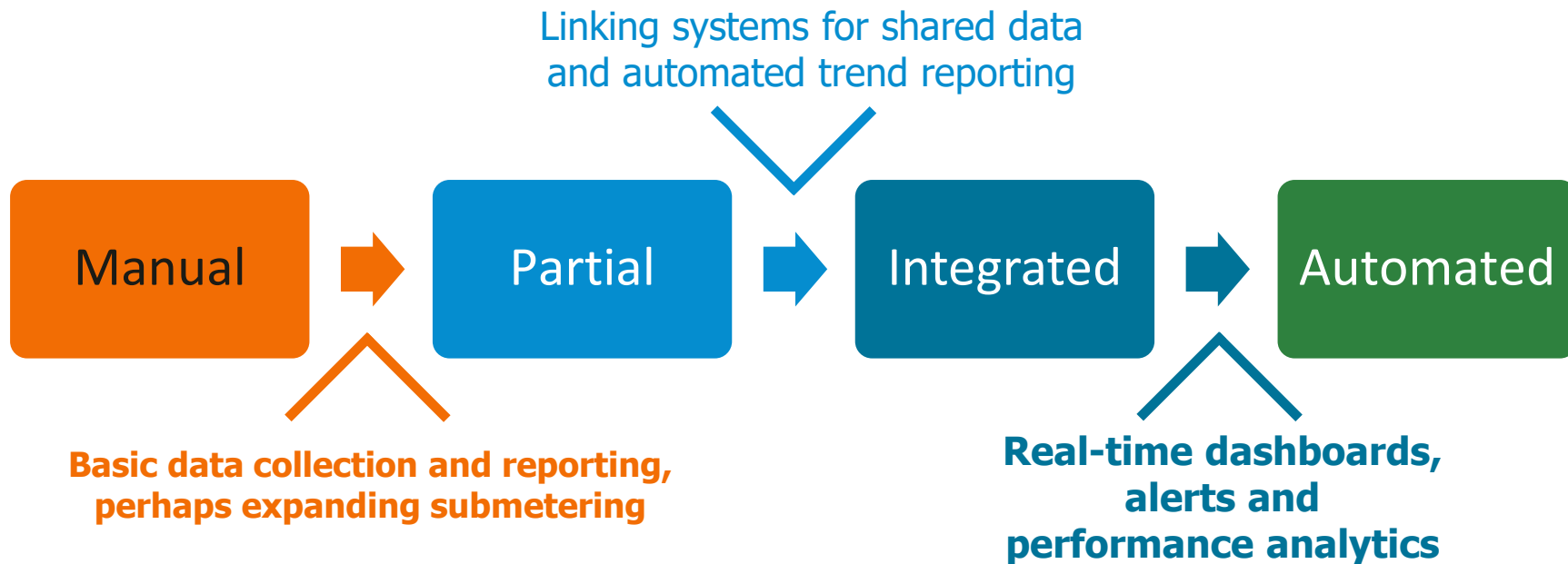
Industrial facilities can receive funding up to \$250,000 for the installation of an energy management system.

# Case study: Automotive manufacturing facility



# EMIS pathway

# Progressing toward desired end state



# Futureproofing your pathway - 1

## Metering

- Choose meters that support one or more open, widely supported communication protocols
- Select meters with expandable/upgradeable features:
  - Multiple parameters
  - Upgradeable communications
  - Onboard logging
- Standardize device naming

## Futureproofing your pathway - 2



- Design your communications backbone now
- Plan for a central data-collection layer
- Coordinate early with your IT team
- Keep detailed records



## Futureproofing your pathway - 3



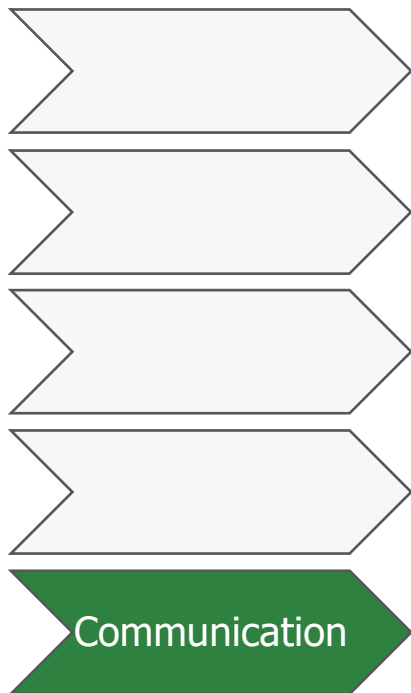
- Store data locally (until cloud EMIS is chosen)
- Choose consistent intervals (e.g. 15 second or 1 minute) and synchronize all devices via Network Time Protocol/UTC time stamps
- Archive raw interval data and aggregated data
- Collect all necessary data to achieve desired outcomes
- Implement data quality flags

## Futureproofing your pathway - 4



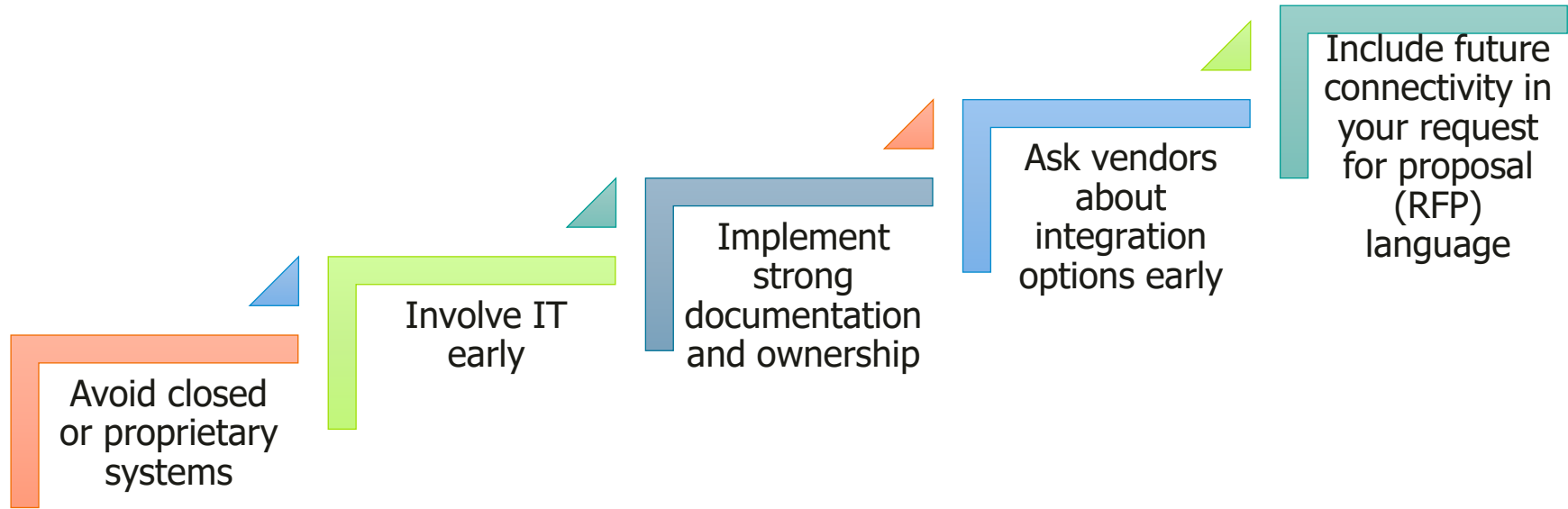
- Set up standard reports for different audiences
- Develop reporting plans that detail audience, frequency, report format and responsible persons
- Avoid closed or proprietary systems

## Futureproofing your pathway - 5



- Plan how insights will drive action
- Identify desired actions and the data and analysis needed to support them
- Get input from stakeholders on what would be useful to them as the system grows

# Success factors for scaling



# Building support



Identify key decision-makers and champions



Tailor your message: finance cares about ROI, operations care about uptime, executives care about visibility



Use simple visuals to communicate progress (e.g. maturity diagrams or dashboards)



Celebrate pilot successes to build buy-in

## Call to action

Start small. Align big. Scale smartly.

What is one specific action you'll take in the next 30 days to move your EMIS forward?

## Stay connected with tools and resources

- Virtual one-on-one coaching: [post-webinar support intake form](#) for tailored support for organizations to manage energy resources effectively
- Monthly bulletin: [sign up](#) to receive monthly training updates on all Save on Energy training and support for new tools and resources
- [Live training calendar](#): visit this page to easily register for upcoming events and workshops
- [Training and support webpage](#): visit this page to access all training and support materials

# Energy management information system (EMIS) incentives

- ✓ Industrial facilities can receive funding of up to \$250,000 for the installation of an EMIS.
- ✓ An EMIS is designed to provide organizations with energy-related data and insights to effectively manage energy use.



EMIS incentive \*



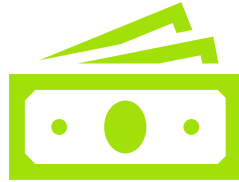


# Benefits of participating in a program that funds EMIS



## 50% of project costs

- Equipment
- Third-party installations
- Prepare project measurement and verification (M&V) plan



## Reducing energy costs

- Improve budgeting and forecasting
- Identify areas of cost reduction



## Improving performance

- Improve target setting
- Enhance analytics capability
- Identify energy waste



## Accountability

- Increase awareness of energy consumption
- Monitoring performance against benchmarks and key performance indicators (KPIs)

# Join the energy management community!

## Get access to:

- **Online training**, courses and other resources to learn how to improve energy management practices
- An **online discussion forum** to connect with peers and experts
- **Peer discussion groups** and meet-ups to share experiences and discuss challenges
- **Small group coaching** sessions to get guidance from experienced energy coaches

Registration is free!



For more information:  
[trainingandsupport@ieso.ca](mailto:trainingandsupport@ieso.ca)

# THE ENERGY MANAGER'S PLAYBOOK

*"I was listening to an episode on my way home from work and I had to turn it off because I was getting too many ideas that I wanted to listen to it at home where I could take notes."*

*-Allison*



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