## WEBINAR Date: 26th March 2024

What it takes to scale grid battery manufacturing, from lab to gigafactory



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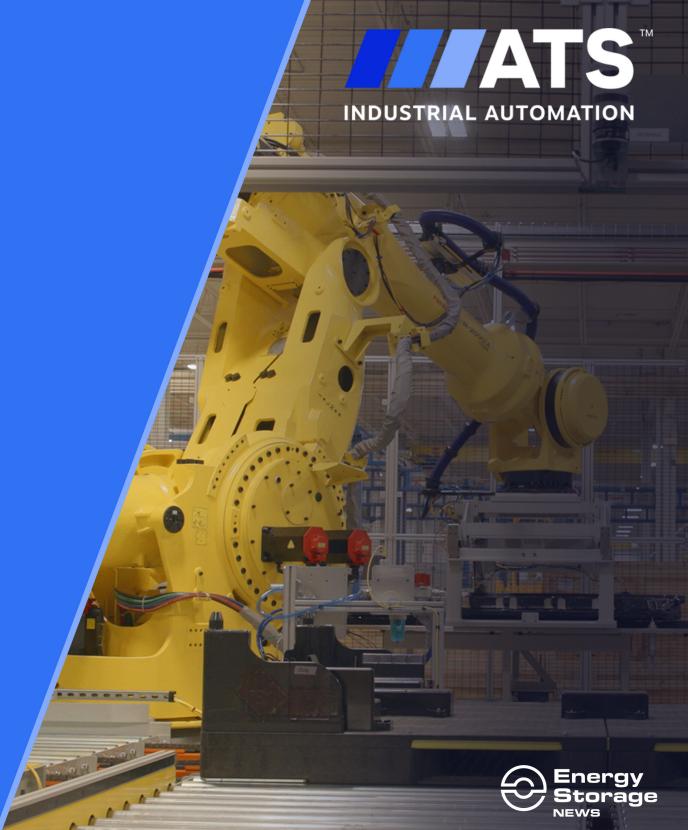




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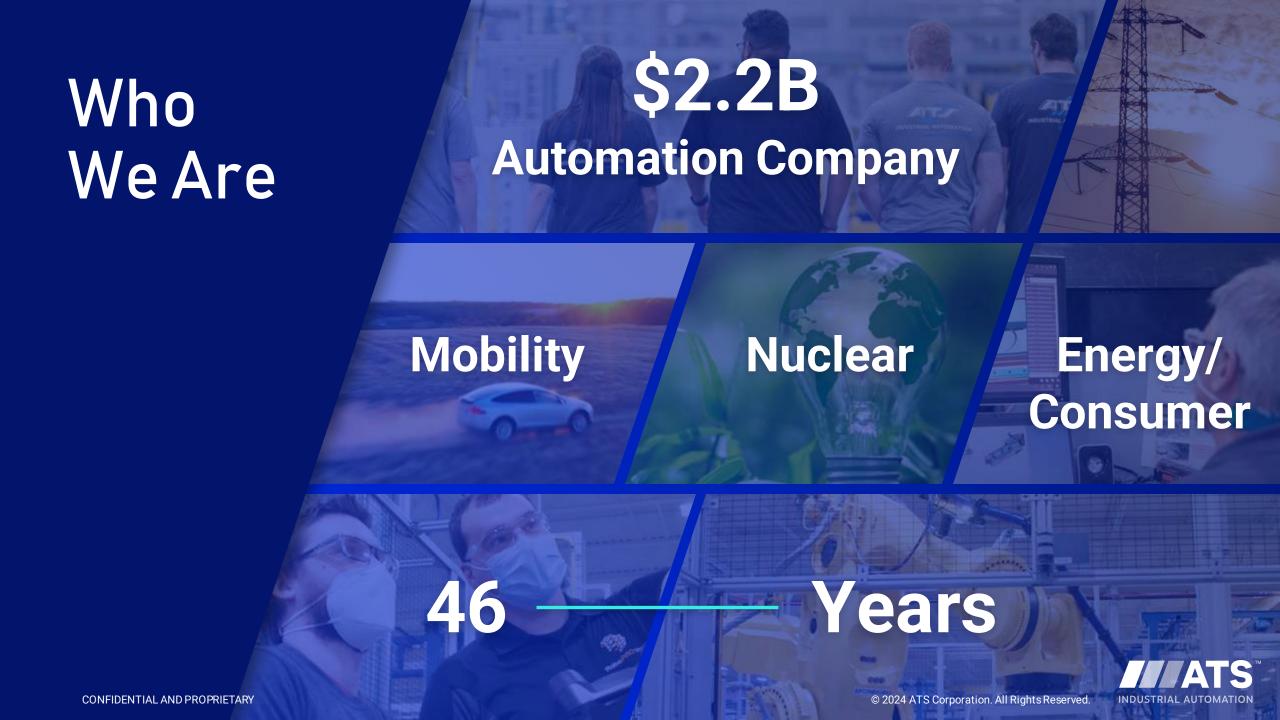






## Scaling an Idea to Gigafactory

Understanding the 7 Stages of an Energy Storage Company



## Battery Energy Storage Systems

Importance of BESS in a zero-carbon future

Innovation happening in battery development:



Use of new materials

Number of patents



Investment needed in grid batteries to reach climate goals





# The Journey from BESS Idea to Gigafactory

Turning an idea into a high volume gigafactory doesn't happen overnight, it can take decades. Understanding the requirement at each stage and meeting key milestones alone the way is critical in making the transition from idea to pilot line to full production gigafactory.

Stage Requirements

Key milestones



**Partners** 

Knowing when to bring in partners can help companies move through the stages faster.







#### **Business Lifecycle Stages**

## Battery Manufacturer Maturity Curve



**Scaling** 









Low-Volume Manufacturing



Sample Production



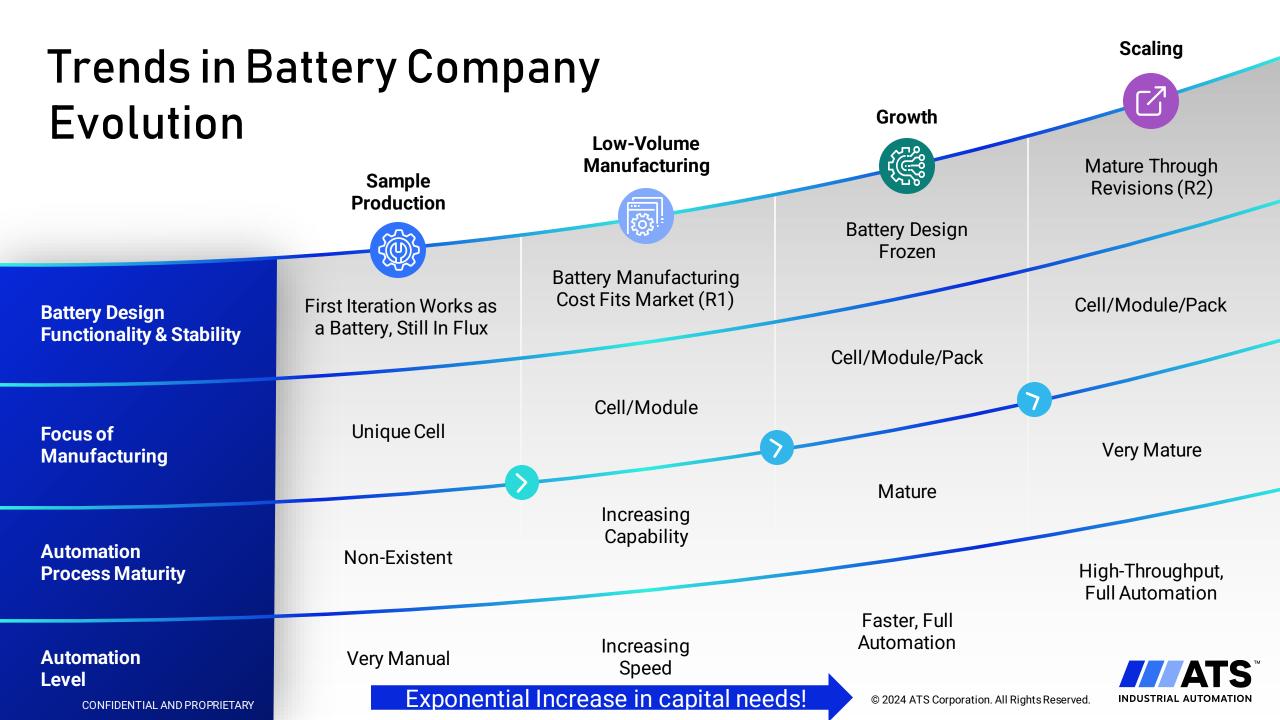
Ideation



**Proof of Concept** 







#### Lifecycle Stages

## Battery Company Maturity Curve









Growth



Low-Volume Manufacturing



#### **ATS Offers:**

Flexible Production **Digital Twin** Software Decommissioning





**Proof of Concept** 



Sample **Production** 

#### **ATS Offers:**

Simultaneous Engineering Flexible Automation Test **Digital Twin** Scale Planning

Simultaneous Engineering **High Volume** Automation Test **Digital Twin OEE Software** Scale Planning

#### **ATS Offers:**

High Volume Automation High Volume Test Repeat Equipment Manufacturing **Digital Twin** Software

**ATS Offers:** 

#### **ATS Offers:**

Design to Manufacturing **Product Validation** Planning

#### **ATS Offers:**

**Small Equipment Automation Advice** Design for Manufacturing **Product Testing** 

### Scale planning



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Consumer

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