



# The Faraday Institution

## Building a community that delivers

Neil Morris  
CEO

6 November 2018

 THE FARADAY  
INSTITUTION



OUR MISSION: To make significant scientific breakthroughs in electrochemical energy storage research in the global race to electrification.

OUR VISION: A future in which energy storage technologies have transformed the world's economic and environmental prospects.

## WHAT IS AT STAKE?



# The opportunity: why does the UK want to be world-class in automotive battery technology?



The UK is the **3rd largest** car producer in Europe, producing **1.7 million** domestic vehicles in 2016



The current lithium ion battery was invented in Oxford in 1980



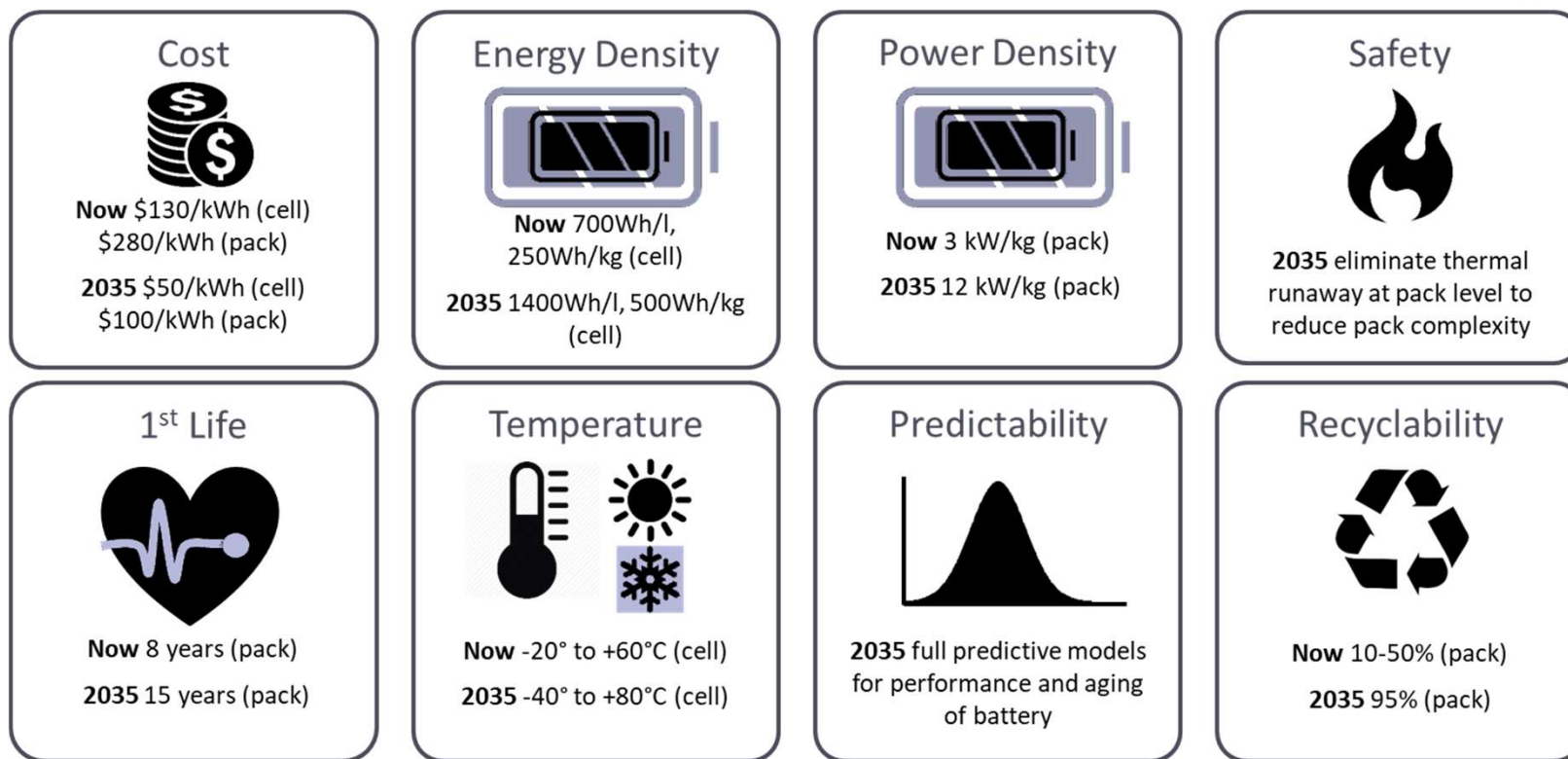
The auto sector employs **163,000 people**



Productivity levels in the industry are **£90K per person**, 50% higher than the UK average and the highest amongst major car producing nations

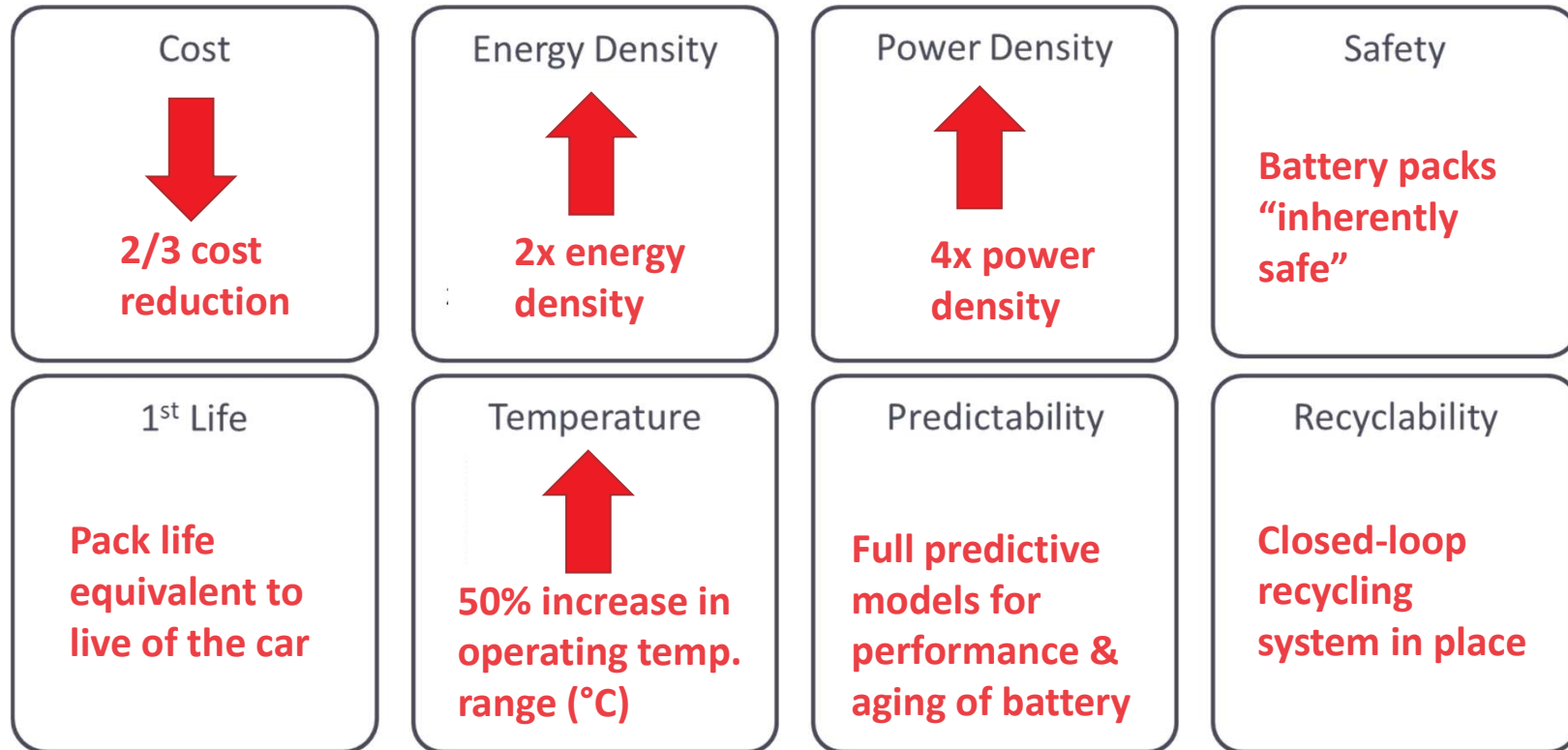


# EV TECHNICAL CHALLENGES

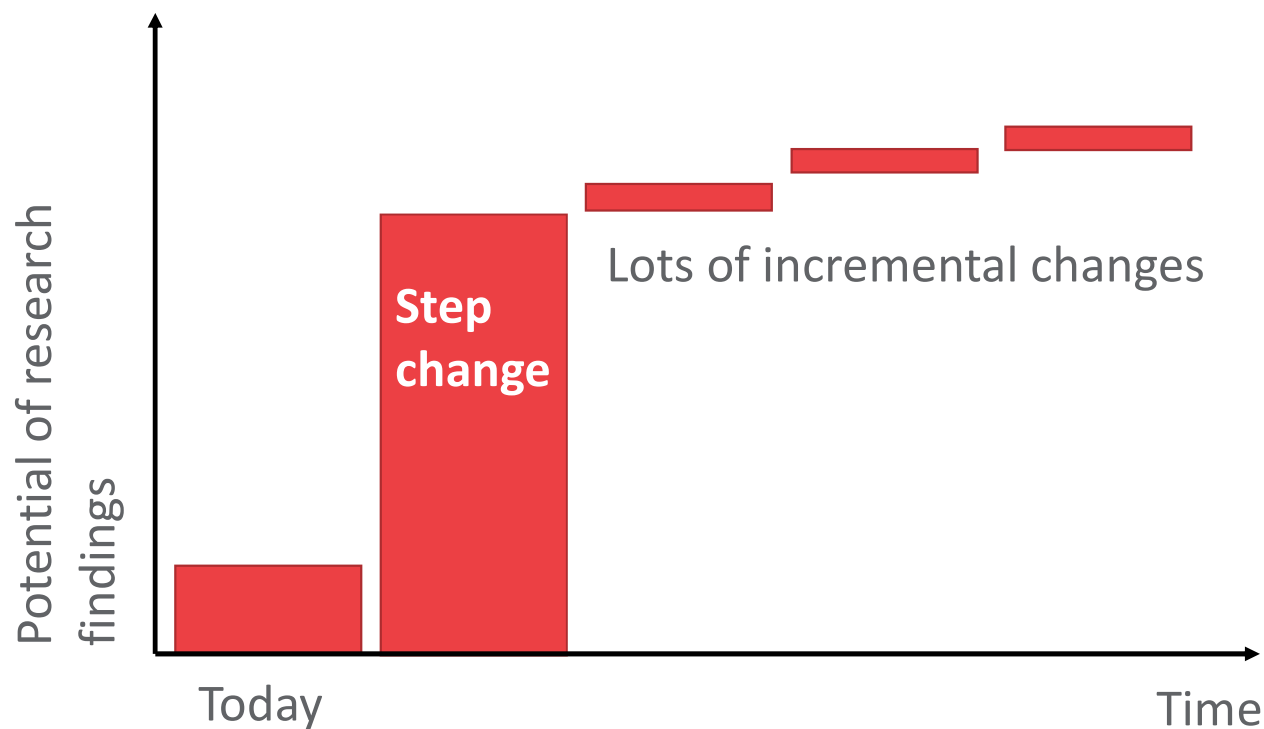


# EV TECHNICAL CHALLENGES

By 2035



## WHAT DOES SUCCESS FOR LOOK LIKE?

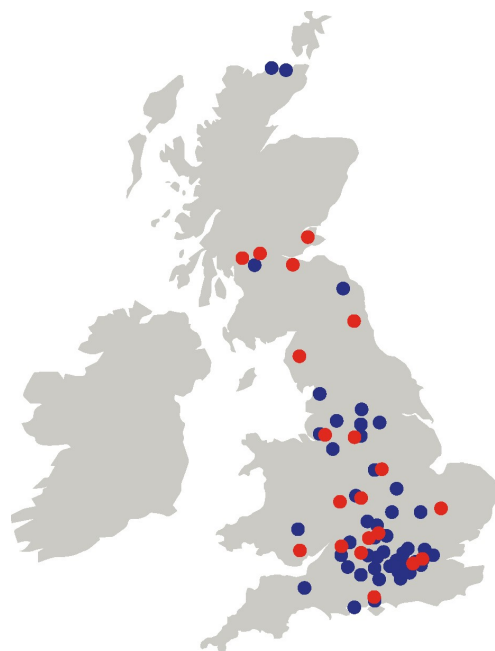


- Deliver a breakthrough
- Set a path to become world-leading
- Build capability & skills



Collaboration as a route to success

WE ARE GEOGRAPHICALLY  
DISPERSED



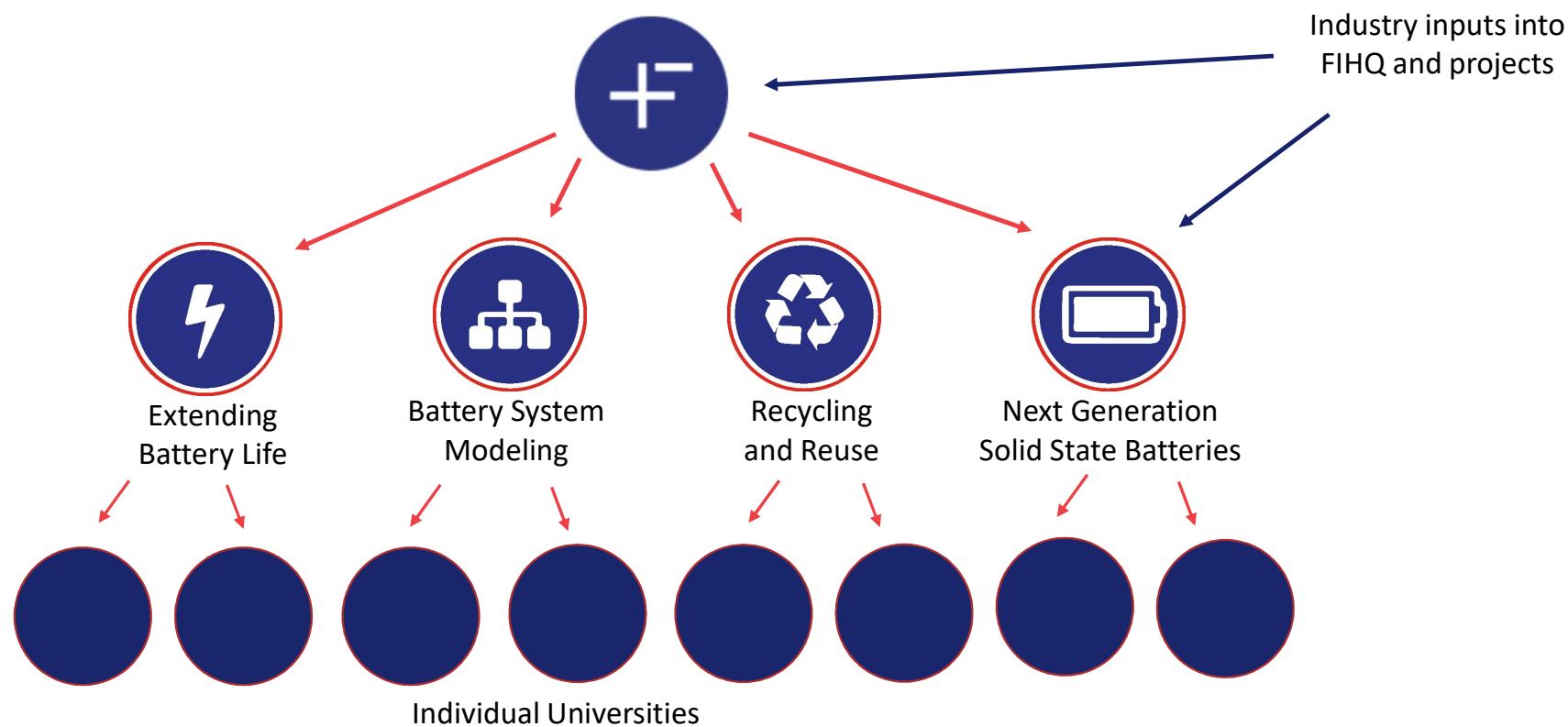
**Faraday partners**



UK Research  
and Innovation



## CURRENT STRUCTURE AND OUTLOOK

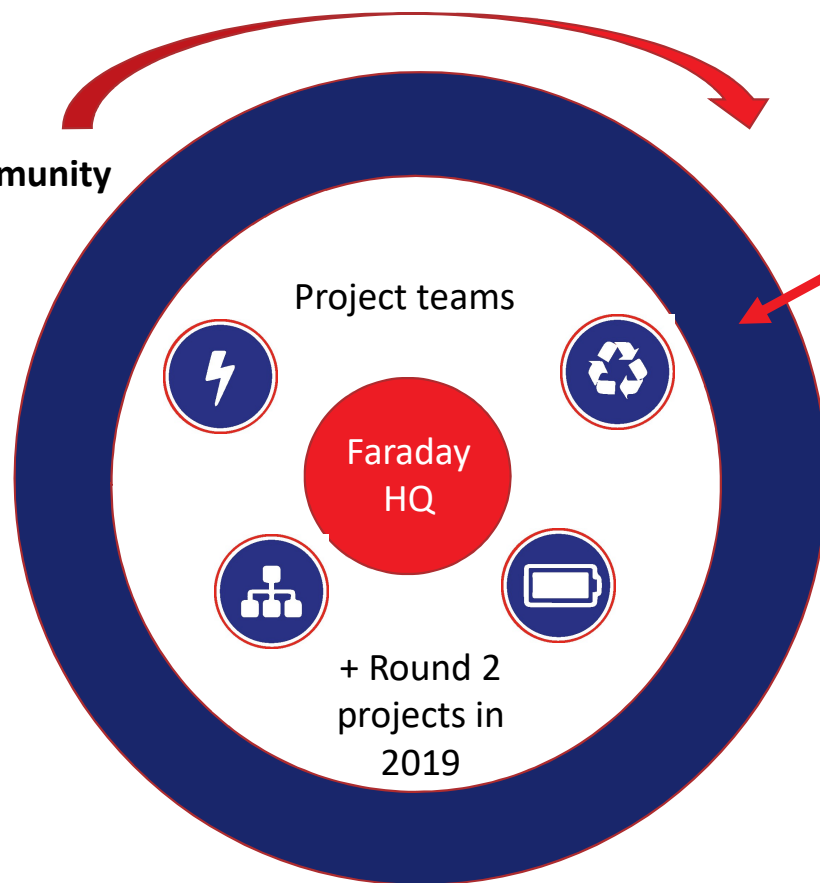


## CREATION OF INTERCONNECTIONS AND COMMUNITY



**Our community**

Build community and  
connections within and  
between teams and from  
FIHQ into teams and



Project teams

Faraday  
HQ

+ Round 2  
projects in  
2019

**Key influencers:**  
Government  
Industry  
Board of Trustees  
Expert panel  
Press  
Advisors  
Other universities

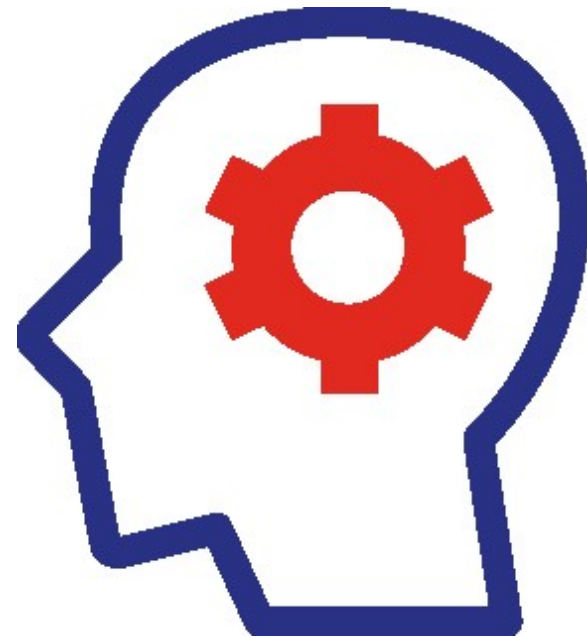
## THINKING DIFFERENTLY

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The essence of our new model to achieve results:

- Take a large, thorny industrial challenge
- Assemble integrated teams of smart people working to solve it
- Fund it at a level that allows teams to work faster, at greater scale
- **Push hard & actively manage to remove barriers to success**
- Move discoveries rapidly to innovation





# Values of the Faraday Institution Community

## OUR VALUES



### Collaborate



**We actively collaborate to achieve shared and focused objectives.**

### Be Pioneering



**We are pioneering, visionary and resilient.**

### Make a Difference



**We are driven to leave a lasting legacy.**

## OBJECTIVES OF EVENT



### 6th November

- To provide opportunities to meet new colleagues, strengthen relationships & build connections
  - To help with research, identifying possible process improvements or mentoring opportunities...
- Everyone to gain an overview of project progress
- To draw on collective expertise to brainstorm ways forward around project challenges
- Expert panel review of Wave 2 Workshops discussions to start setting up next wave of projects

### 7<sup>th</sup> November – Three parallel sessions

- Industry-only roundtable
  - Keep projects fully aligned with industry requirements
- Provide carrier development opportunities
  - PDRA presentations
  - Summer intern poster sessions (day 1)
  - Hear from industry and academic publishing perspectives
- Expert panel review of each project
  - To set priorities for Year 2
- Provide opportunity to share ideas on living the FI values and building connectivity



Thank you