



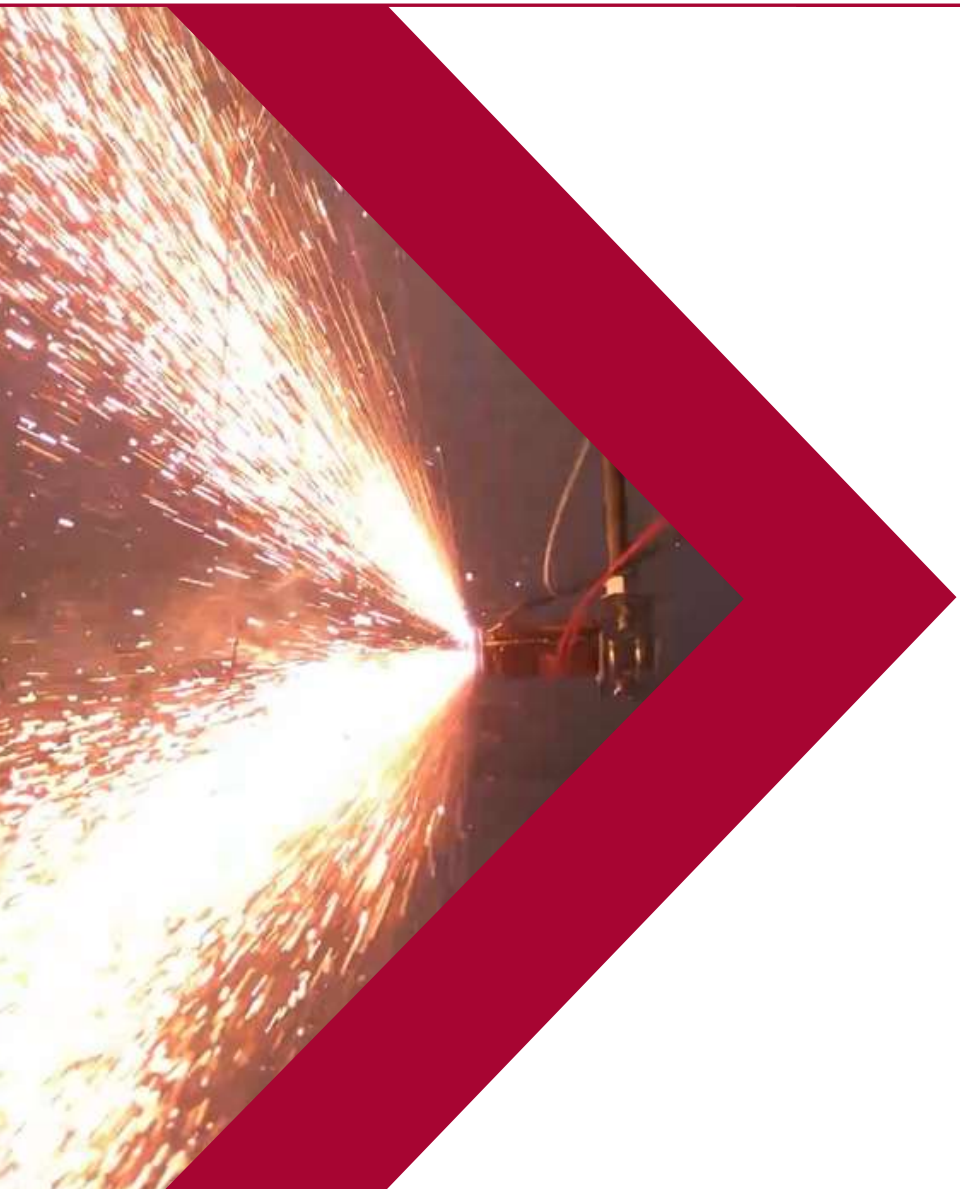
Safety Across the Whole EV Lifecycle

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Session Sponsor:





Safety across the whole EV lifecycle

4th September 2019

Jonathan Buston



**BESPOKE RESEARCH AND
CONSULTANCY FROM**



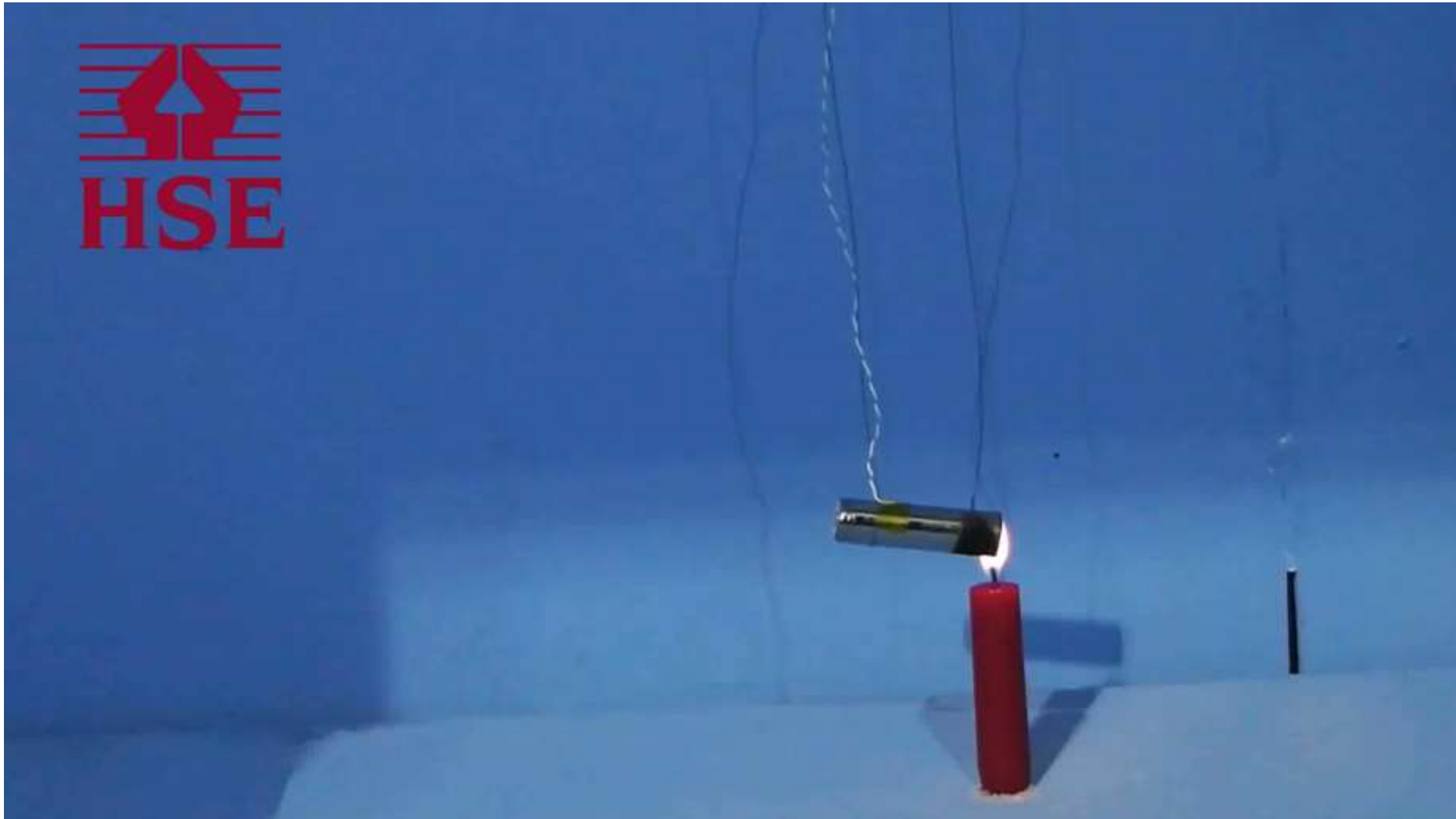
- New, safer cell chemistry desirable
- Recognise that current '*state-of-the-art*' is being deployed

L  B R  S

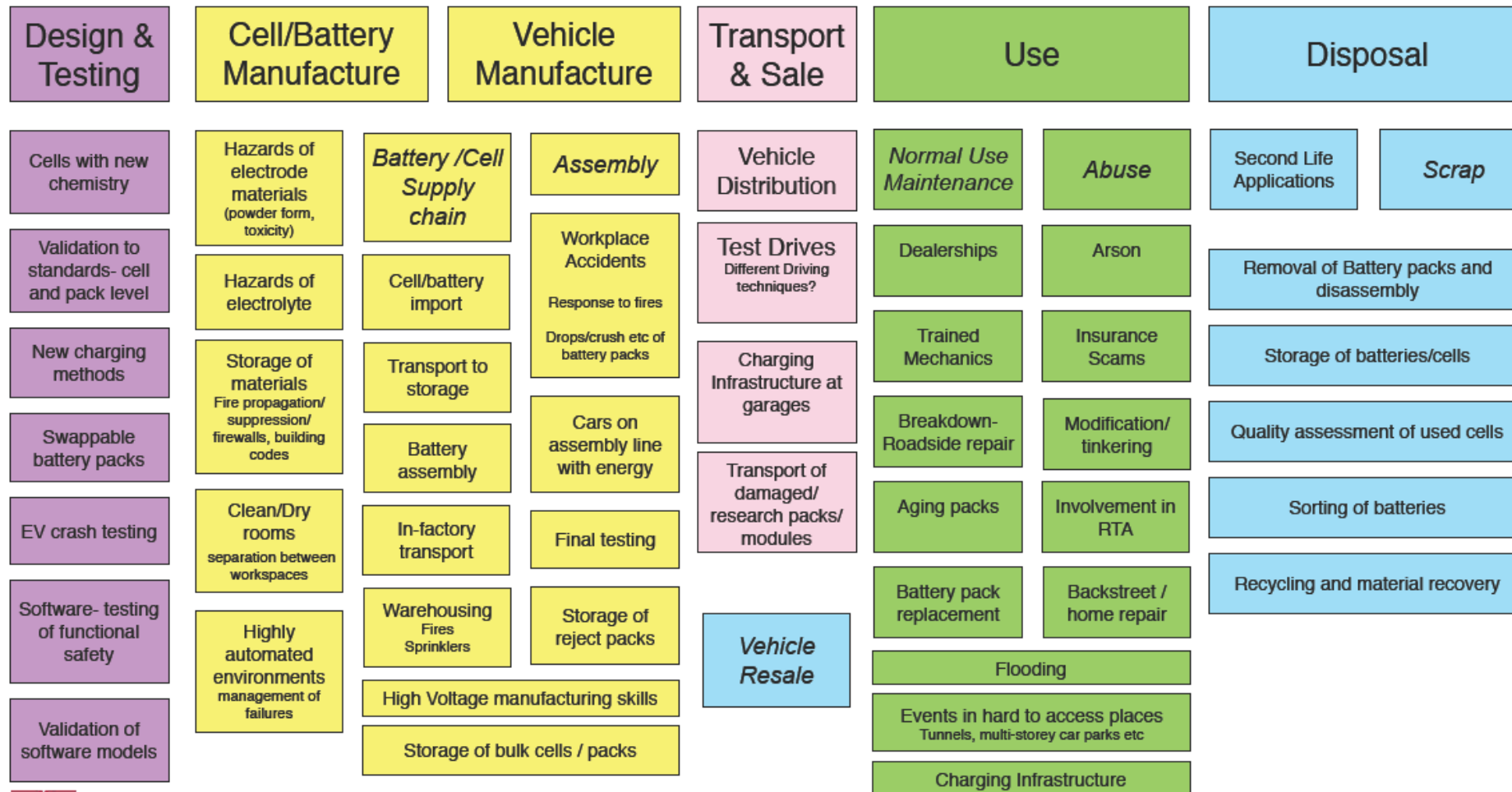


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That lurking concern...



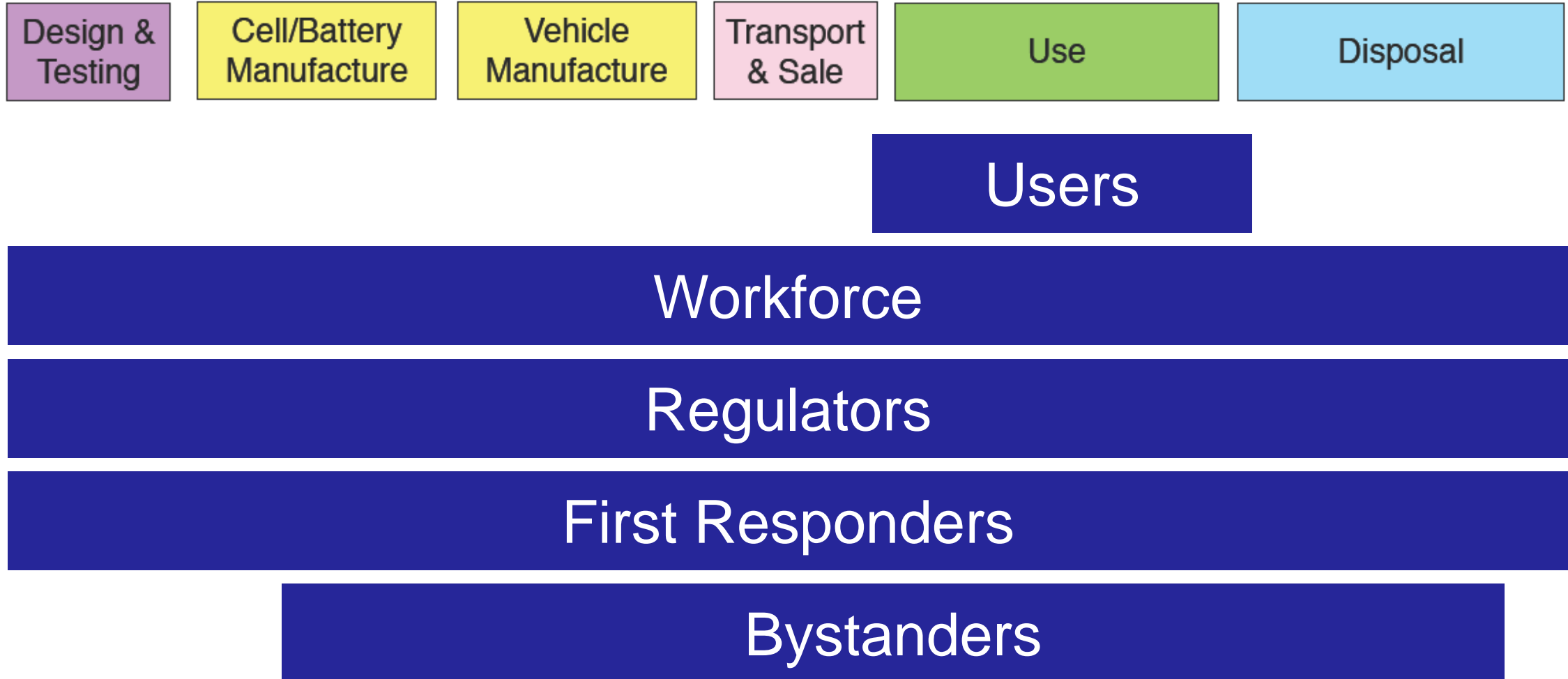
EV Life Cycle: New or Changed Safety Scenarios



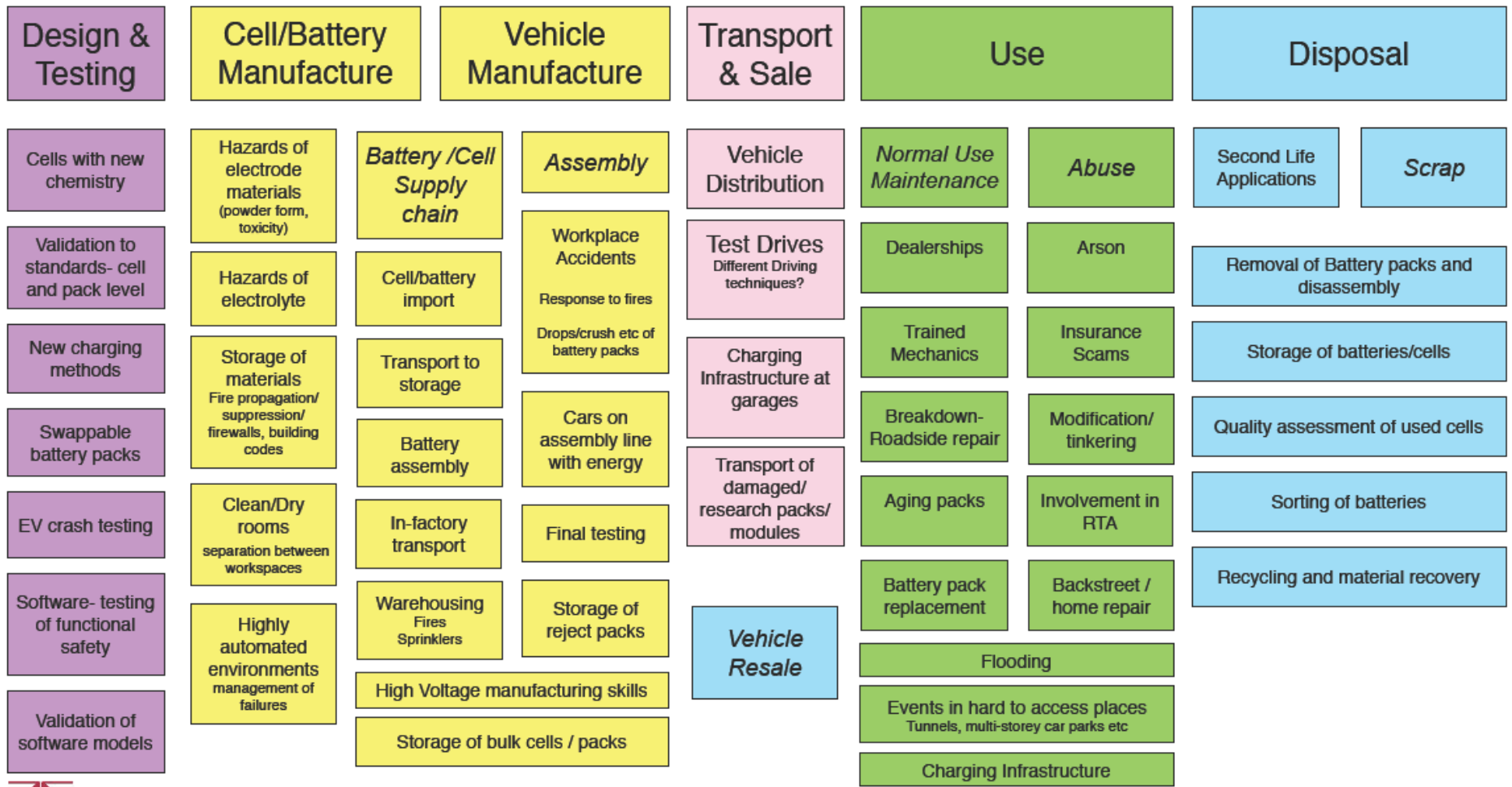
Dealing with 'Failed' Packs or EVs

First Responders
Fire & Rescue Services Vehicle Recovery Police Helpful public (!)

Stakeholders



EV Life Cycle: New or Changed Safety Scenarios



Dealing with 'Failed' Packs or EVs

First Responders
Fire & Rescue Services Vehicle Recovery Police Helpful public (!)

Storage of packs in manufacturing



- Drops from height
- Fire development (modelling and mitigation)
- Contamination
- Business continuity

Asset Owner / Fire & Rescue Service / Insurers /....

Transport of cells/packs



Eye Witness:

"There were some fireballs coming across the motorway, and a hell of a lot of loud noises"

**Asset Owner / Fire & Rescue Service / Insurers /
Road Users / etc...**

Flooding



Floods bottom of
Lightwood/Nunsfield
Road Thank you
Richard Lower

<http://www.buxtonweather.uk/photoarchive.htm>



PA Media, <http://www.bbc.co.uk/news/uk-england-manchester-49179114>

RTA Incident Management

- Dealing with fire
- Occupant rescue (when is it safe?)
- Reopening carriageway
- Post crash forensics



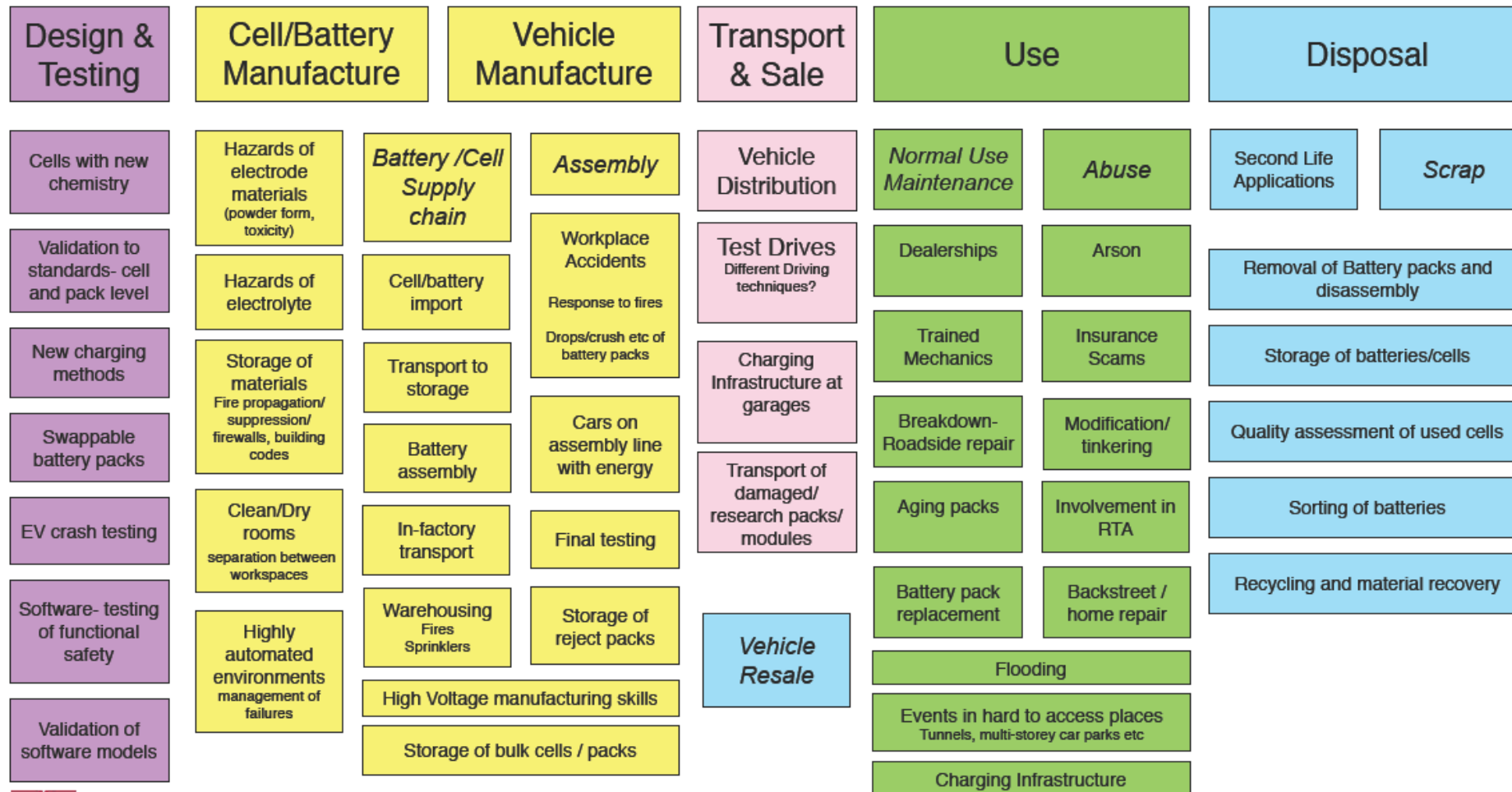
**Fire & Rescue Service / Helpful public / Police /
Highways England / Insurers /**

Recycling



- How it should be done?
- How it will be done??

EV Life Cycle: New or Changed Safety Scenarios



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Questions?



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