

Management Consultants
Product Strategy and Modularisation









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MARKET DESCRIPTION



ANALYSING TRENDS





MODULAR ROADMAP



CONFIGURABLE SOLUTIONS

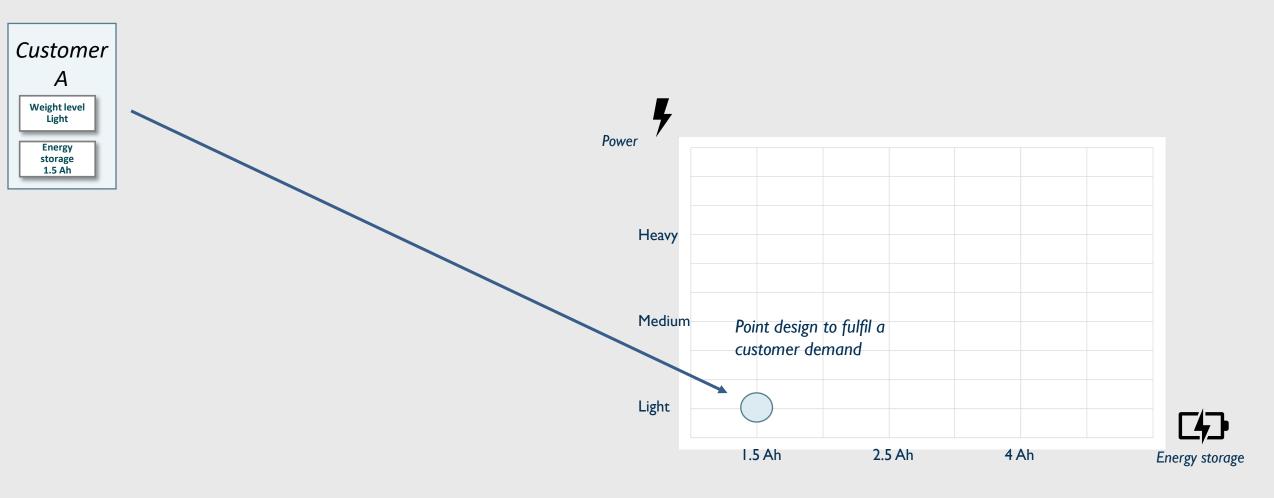




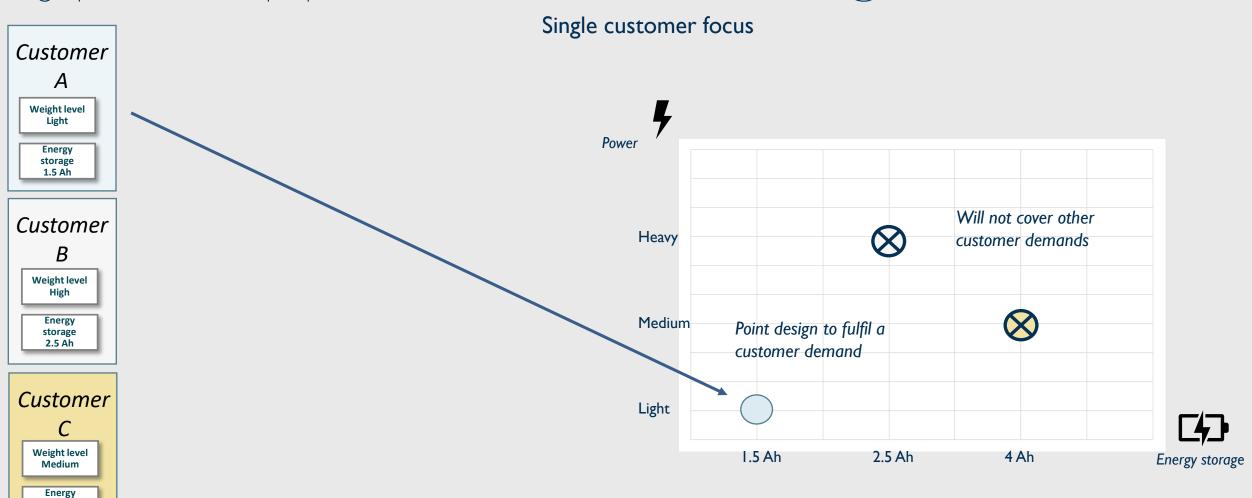










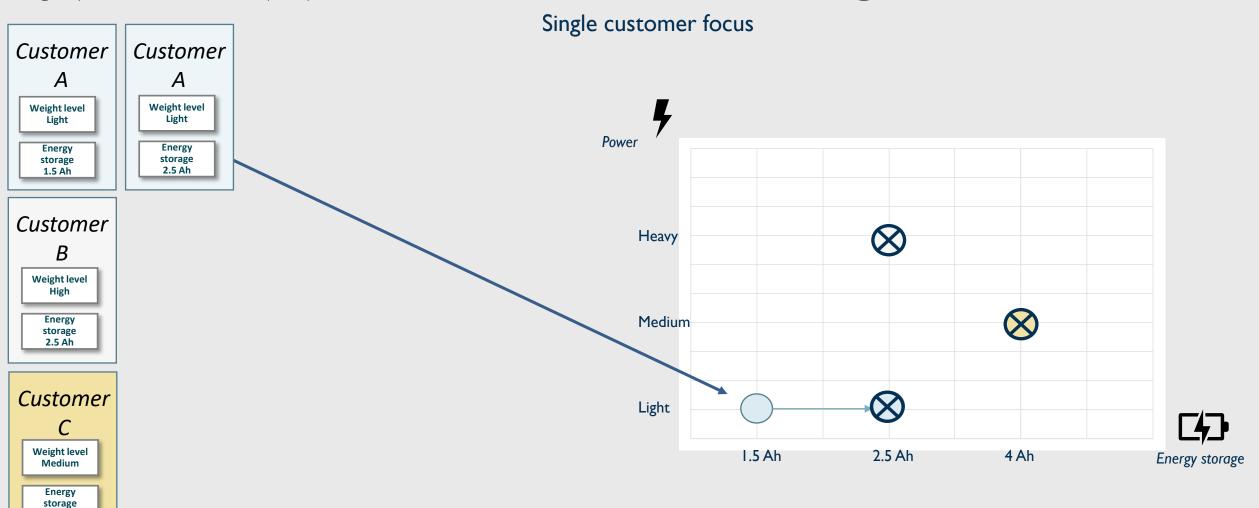




storage 4 Ah

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Typical approach: Point design

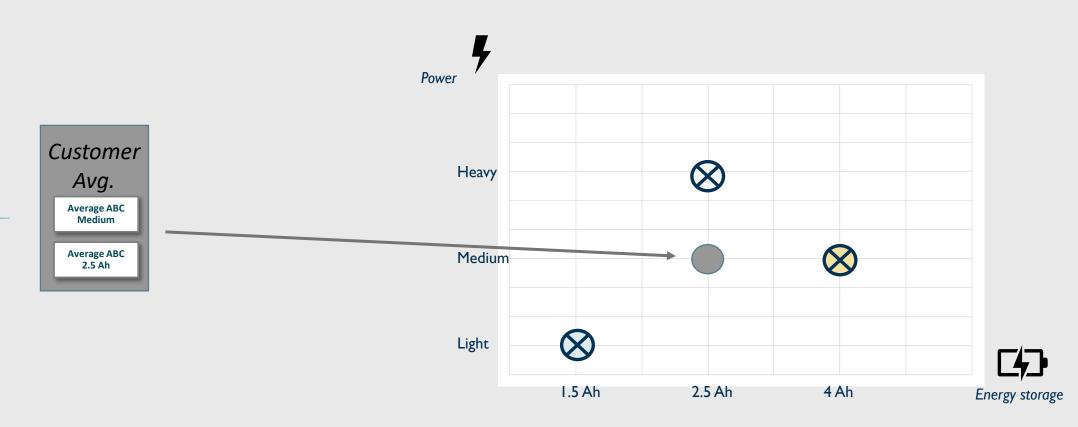


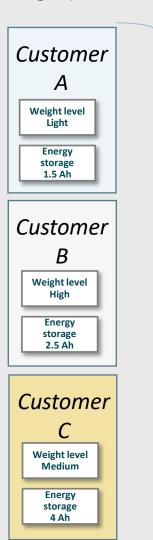


4 Ah

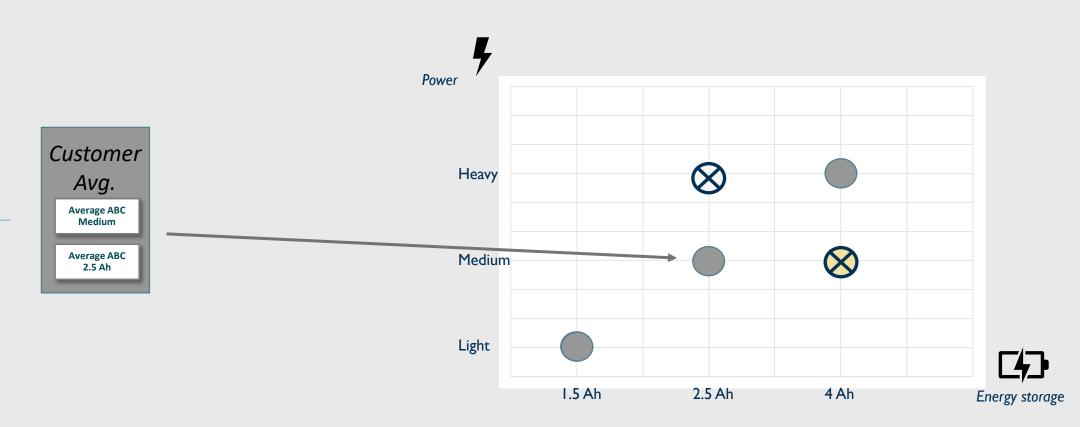
Customer Α Weight level Light Energy storage 1.5 Ah Customer В Weight level High Energy storage 2.5 Ah Customer Weight level Medium Energy storage 4 Ah











Performance demand approach: System of systems

Customer Α Weight level Light Energy storage 1.5 Ah Customer В Weight level High Energy storage 2.5 Ah Customer Weight level Medium Energy storage 4 Ah

All **Performance Demands** Weight level Light Energy storage 1.5 Ah Weight level Heavy Energy storage 2.5 Ah Weight level Medium Energy storage 4 Ah

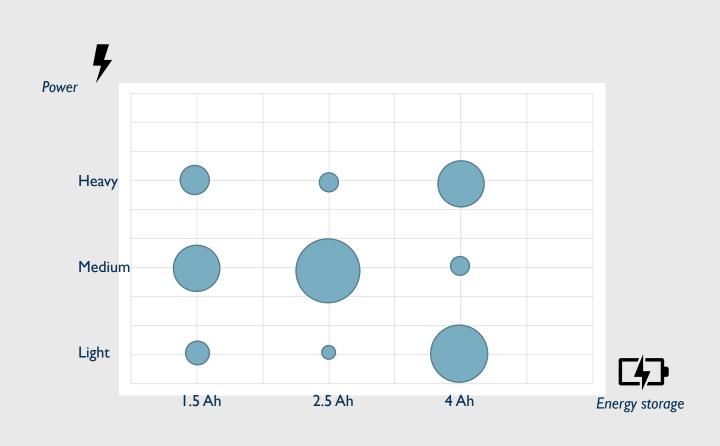
Performance
Series

Series I Series 2

Light 1.5 Ah

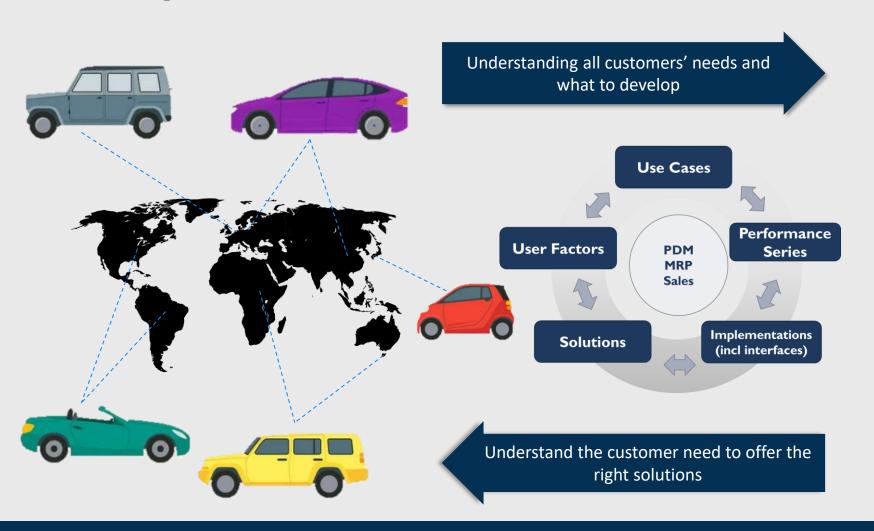
Medium 2.5 Ah

Heavy 4 Ah



One Common Modularisation Methodology

Through User Factors and Performance Series



Modular Roadmap

















































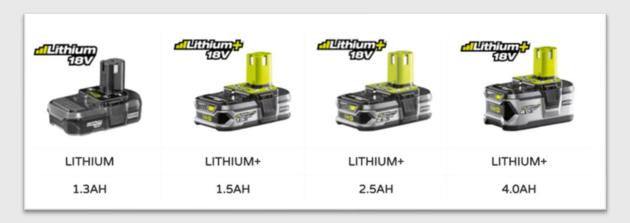
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What is the right number of batteries?



- As few as possible?
- Every battery the customers asks for?
- As cost efficient as possible?

Just enough to fulfill all different customer needs!

Expressed as User Factors:

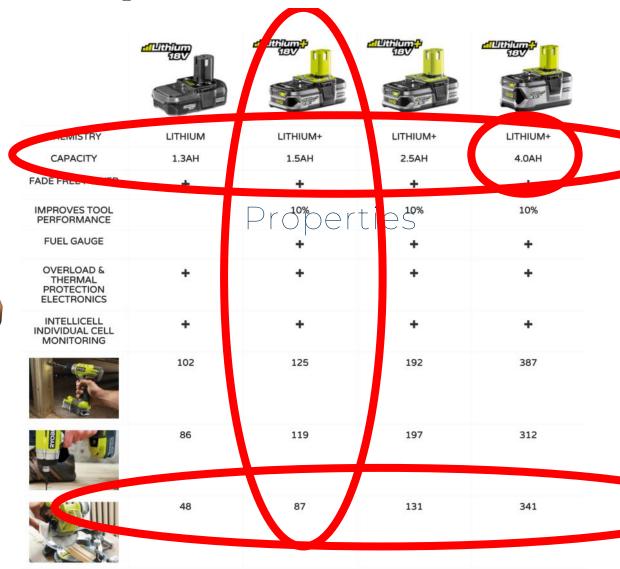
- Working material
- Type of work
- Frequency of use
- Typical working time
- Time available to charge
- Strength of User
- Appearance sensitivity
- Price sensitivity

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The right Performance



The "best" Property

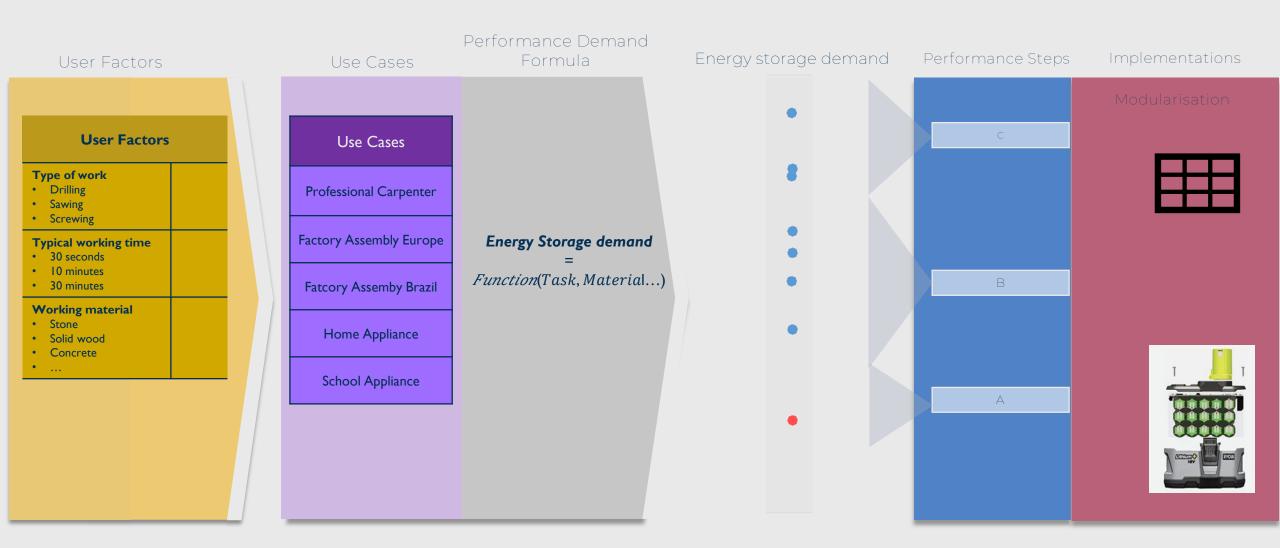
Performance



Use Case



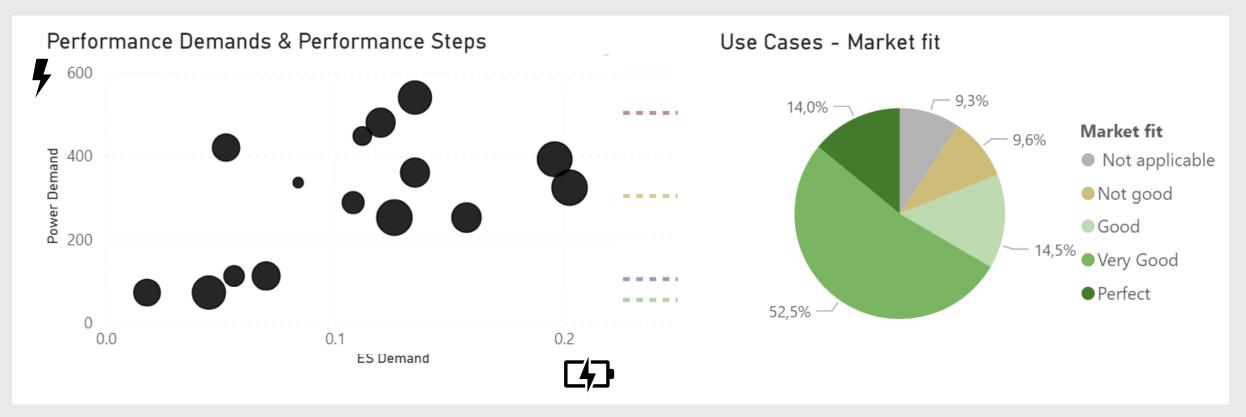
Sequential example – Energy Storage Demand





How good does a system fit the market

Market fit analysis







Modular Implementation





Uniter process

- Identify the market conditions and needs User Factors
- Describe the market variation by Use Cases based on User Factors
- Analyze Performance Demands across Use Cases
- Create relevant Performance Series covering the demands
- Design a modular architecture for the whole system
- Evaluate concepts, architectures, solutions etc. against the Use Cases Market Fit Analysis
- Design and implement hardware, software and services.
- Find the most optimal solution through combinatorics





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