



**PORSCHE**

# From racing to series production



Cooling concepts  
EE components

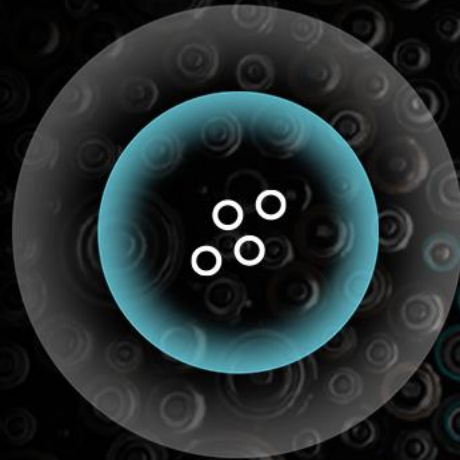


Virtual development  
methodology

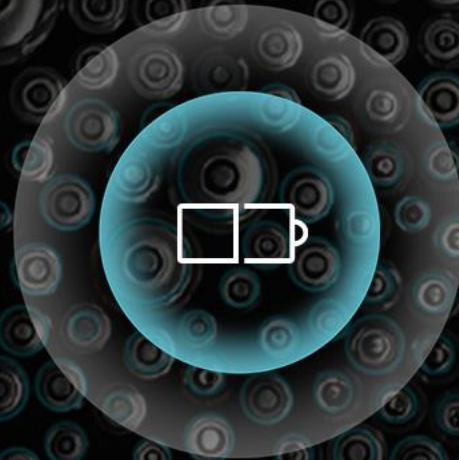


800 volt  
technology

# Development for customized high-performance batteries



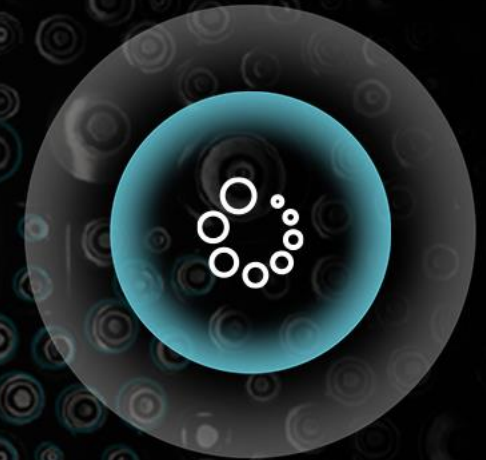
**New  
materials**



**Optimized  
cell design**



**High performance  
cooling concepts**



**Testing in  
Motorsports**

## High-performance requirements in racing

Energy density

**+40 %**

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Power density

**+50 %**

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Operating  
temperature

**+35 %**

Weight

**-30 %**

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Internal resistance

**-25 %**

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Recuperation  
performance

**+40 %**



# High-performance cellular chemistry: Silicon

The status quo

The innovation



■ Anode   ■ Cathode   ■ Current collector   ■ Electrolyte & Separator