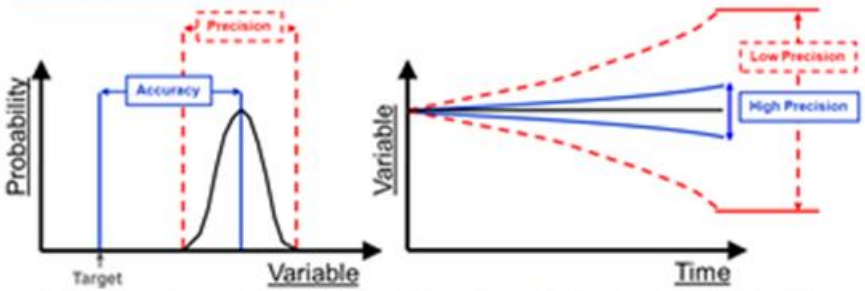
HIGH PRECISION TESTER FOR AUTOMOTIVE & STATIONARY BATTERIES

Advantage & Differentiation

Precision vs. Accuracy

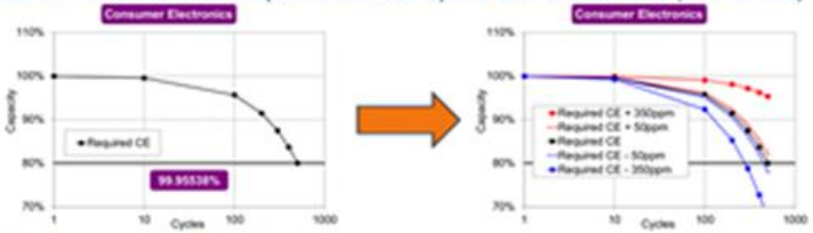


High Precision Example: 200A & 0.04A Precision → 0.02% or 200ppm Precision

Columbic Efficiency (CE)

$$C.E. = \left(\frac{e^-_{out}}{e^-_{in}}\right) \times 100\%$$

Consumer Electronics Requirement: 500 cycles before 20% Fade (End-of-Life)

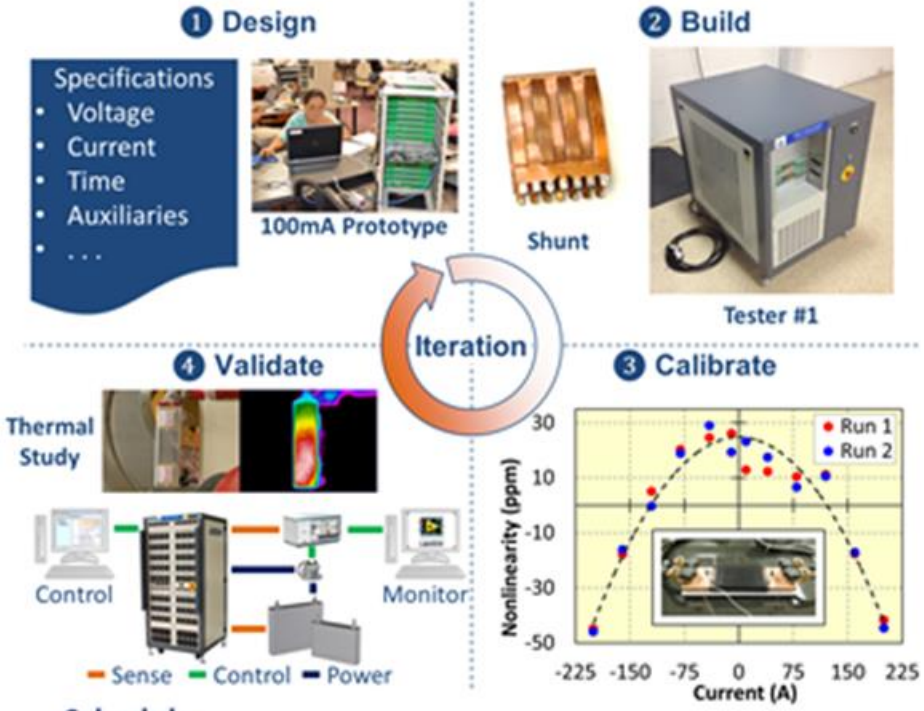


Performance Targets

Metric		Tester Precision		
		SOA	#1 Target	#2 Target
Columbic Efficiency	ppm	349	150	50
Voltage	ppm	200	100	25
Current	ppm	200	150	50

Project Focused on Automotive & Stationary Relevant Currents of 200A

Technology



Schedule

Milestones		2013				2014				2015			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Tester #1	Design & Build	•	•	•									
	Calibration				•								
	Validation					•	•	•	•	•	•	•	•
Tester #2	Design & Build				•	•	•	•	•				
	Calibration									•			
	Validation										•	•	•

Improved Battery Life Prognostication and Performance Diagnosis Capability