

CeraCharge™

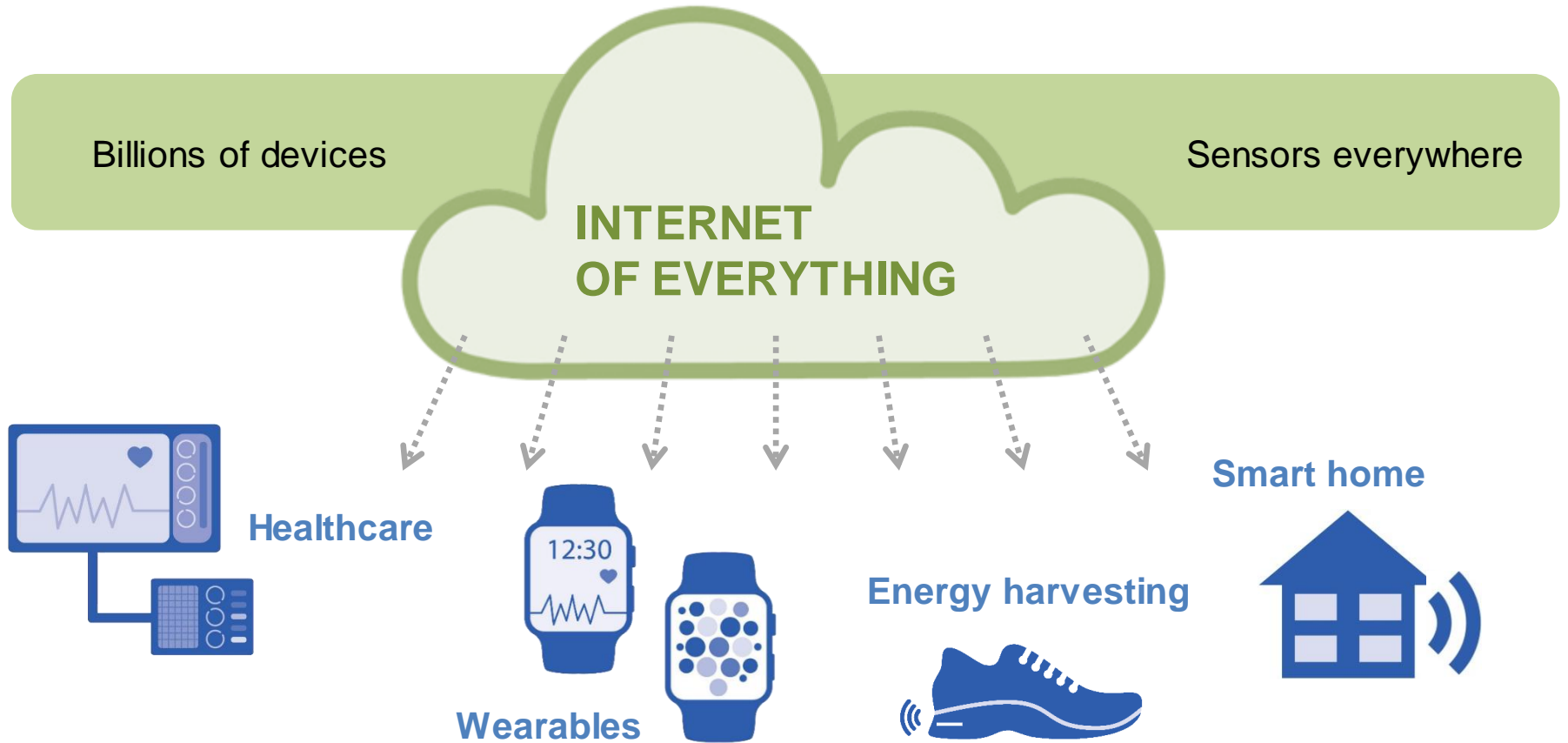
World's first rechargeable solid-state SMD battery

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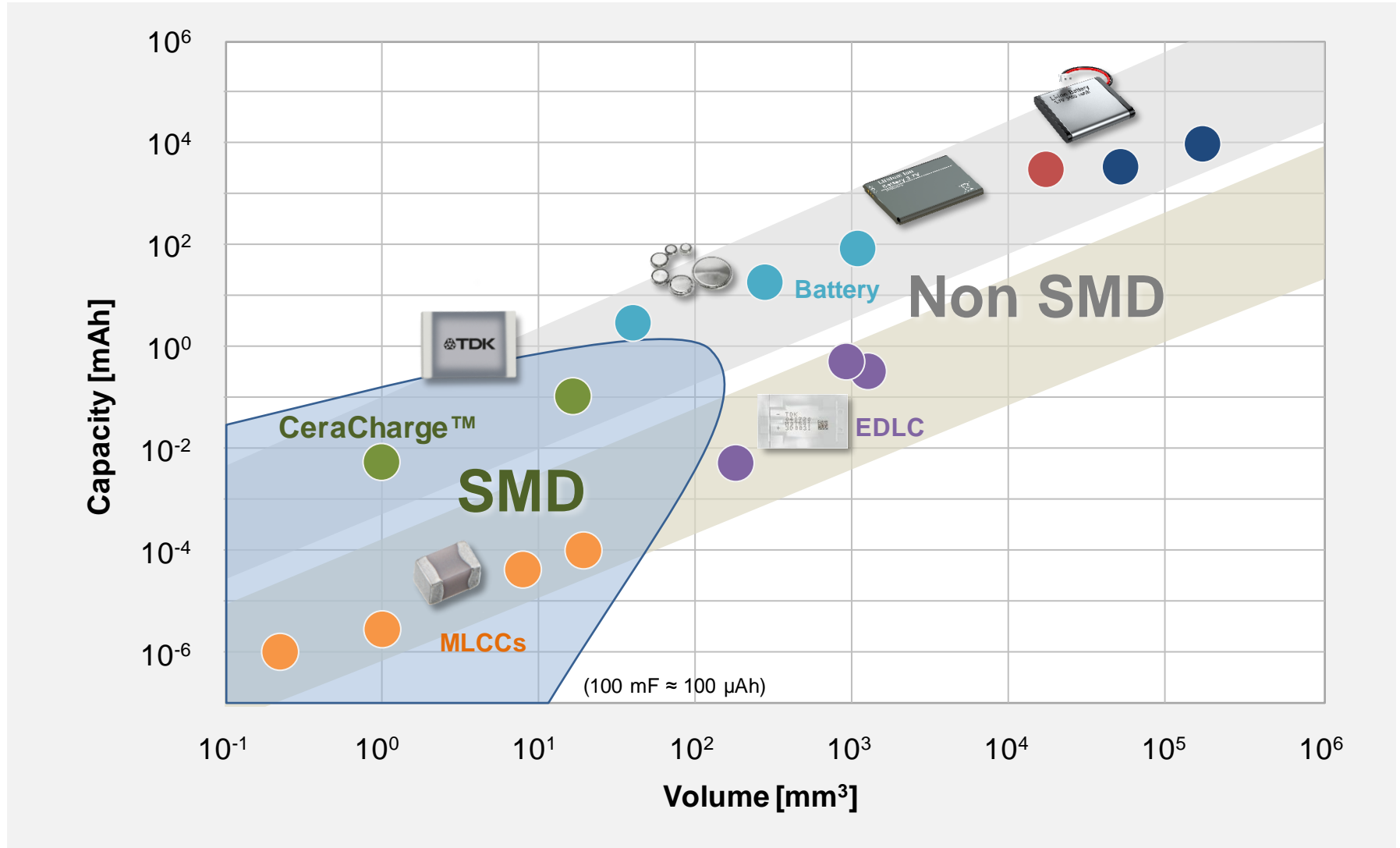
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Demand for a new battery technology

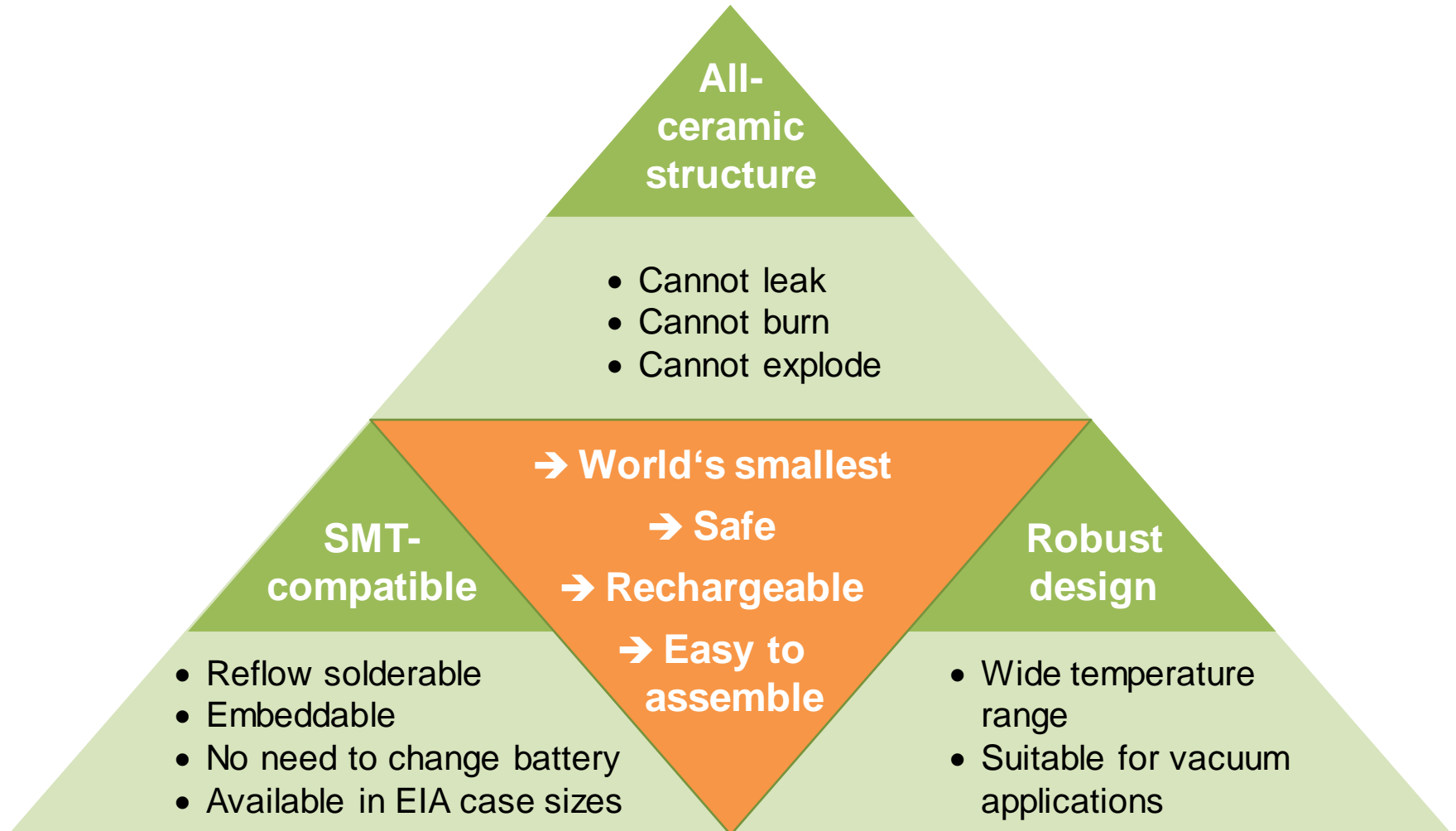


New application fields drive the demand for compact, safe, rechargeable energy sources

Comparison of energy storage devices



Unique features of CeraCharge



CeraCharge – World's first rechargeable solid-state SMD battery

CeraCharge 1812

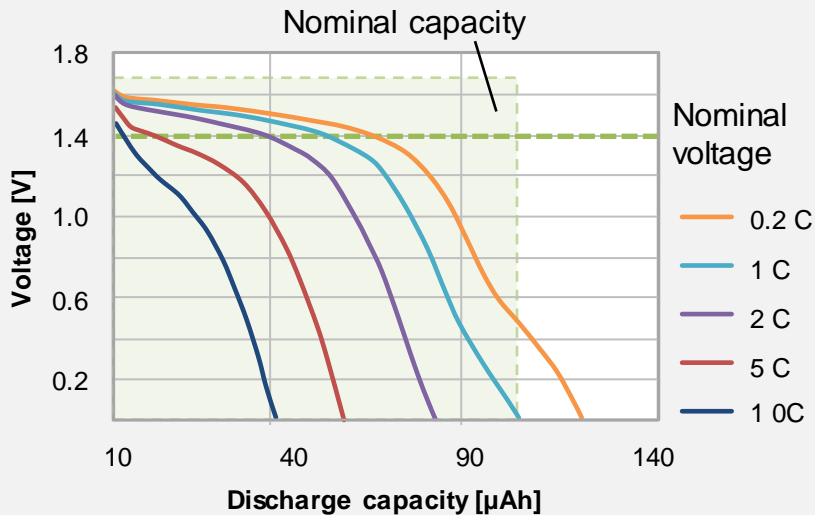
Nominal voltage	[V]	1.4
Operating voltage	[V _{op}]	0 to 1.6
Nominal capacity	[μAh]	100 ±20
Nominal discharge current	[μA]	20
Operating temperature	[°C]	-20 to +80
Case size	[EIA]	1812
Dimensions	[mm]	4.4 x 3.0 x 1.1
Initial inner resistance	[Ω]	<200
Weight	[g]	0.04



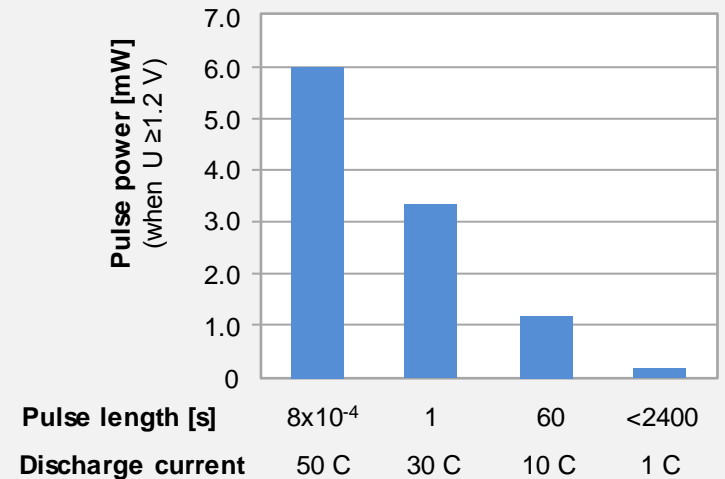
CeraCharge offers 1000 times the capacity of a capacitor in the same case size

CeraCharge features fast and pulsed discharging

Typical discharge curves



Typical pulse power

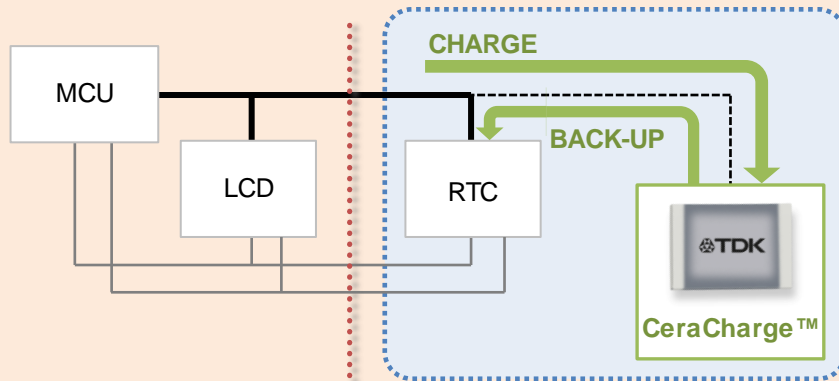


Can be connected in both series and parallel for maximum design flexibility

Main applications for CeraCharge

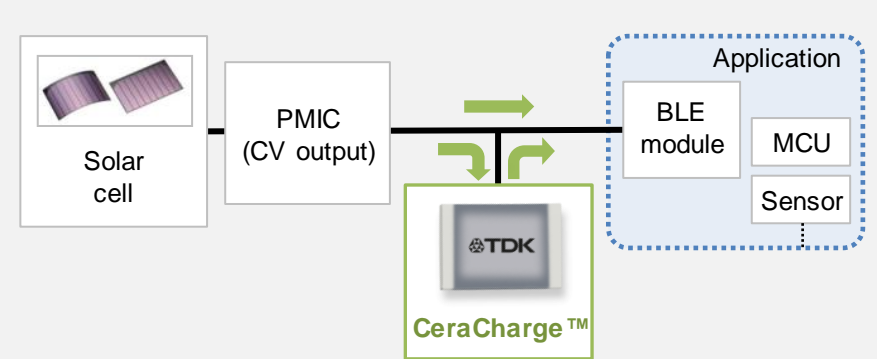
Real-time clock

Backup battery



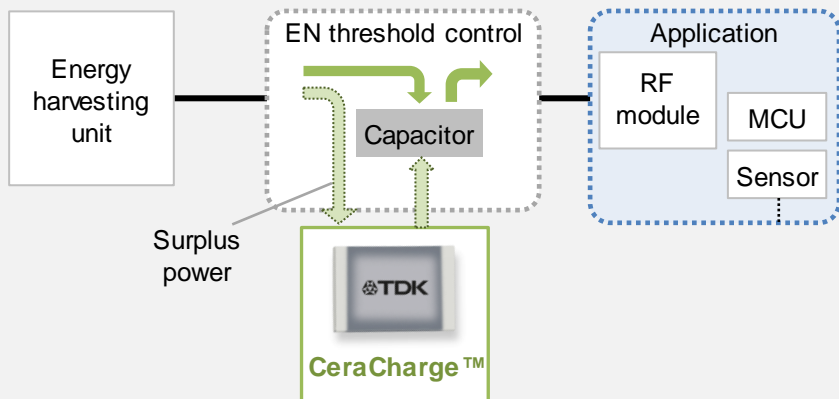
Internet of Things: Beacon

Energy storage (battery)



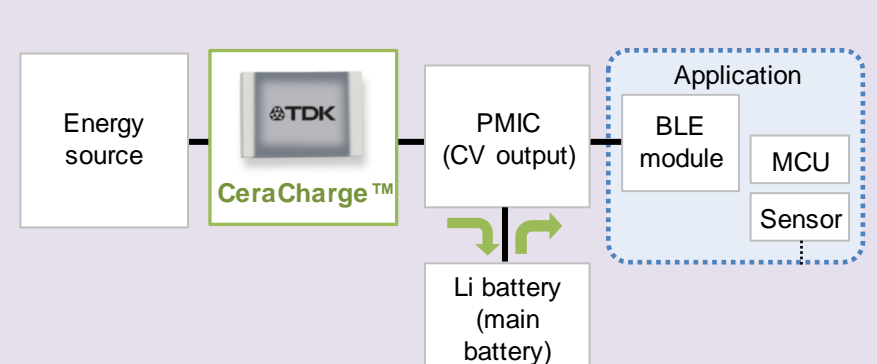
Energy harvesting

Energy storage



Wearables

Sub-battery for voltage and current smoothing



Outlook

Samples available in 1812

Mass production starting Spring 2019

All Types in R&D Stage



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