



Innovation in the Clean Energy Space: Lessons Learned at A123

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Founding Team:



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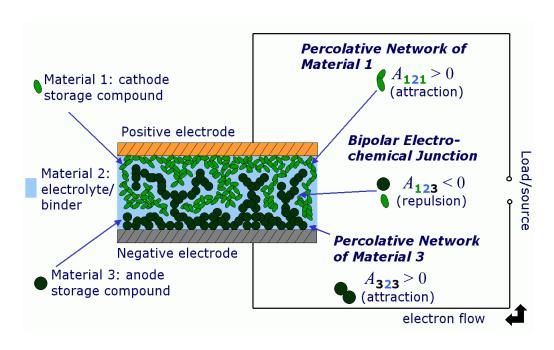
Origin of Our Name:

 A123 Systems owes its name to the Hamaker force constant which is used to calculate the attractive and repulsive forces between particles at nano dimensions, and which begins "A123..."

$$A_{123} = \frac{3}{4}kT\left(\frac{E_1 - E_2}{E_1 + E_2}\right)\left(\frac{E_3 - E_2}{E_3 + E_2}\right) + \frac{3}{8}\frac{hv}{\sqrt{2}}\frac{\left(n_1^2 - n_2^2\right)^{1/2}\left(n_3^2 - n_2^2\right)}{\left(n_1^2 + n_2^2\right)^{1/2}\left(n_3^2 + n_2^2\right)^{1/2}\left(n_1^2 + n_2^2\right)^{1/2} + \left(n_3^2 + n_2^2\right)^{1/2} + \left(n_3^2 + n_2^2\right)^{1/2}}$$









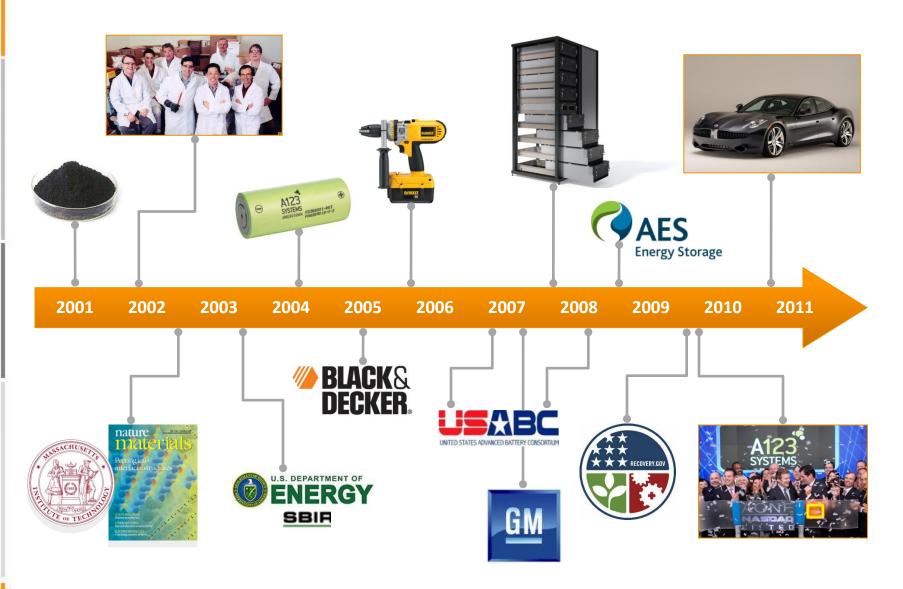
Advantages

- 2x energy density, ½ the manufacturing cost
- New battery architecture achieved through self-organization
- A₁₂₃ holds exclusive world wide license

There was just one problem... it didn't work!

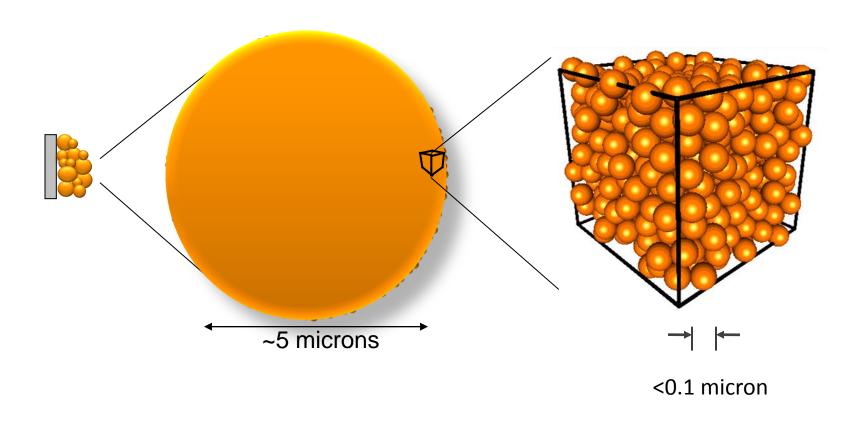
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Companies are about people, not technology



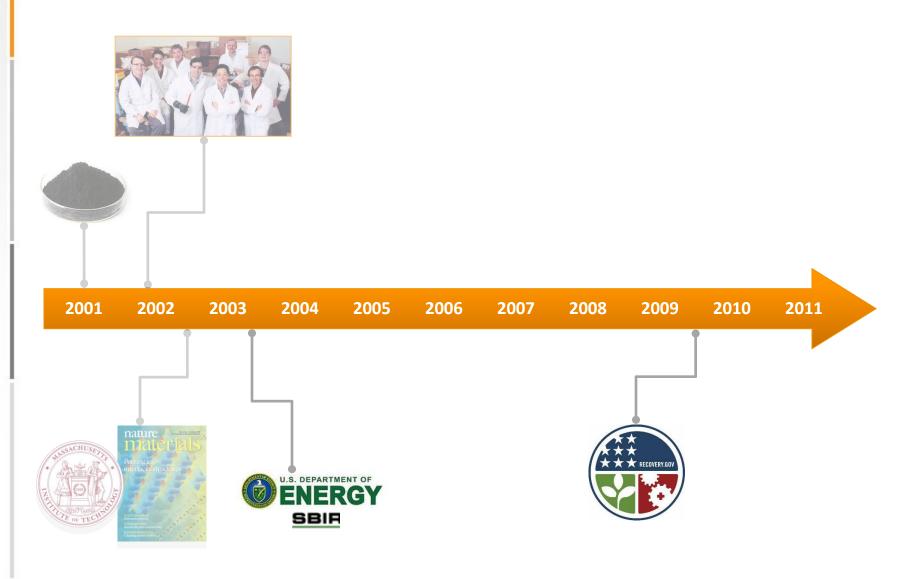






Leverage government funding

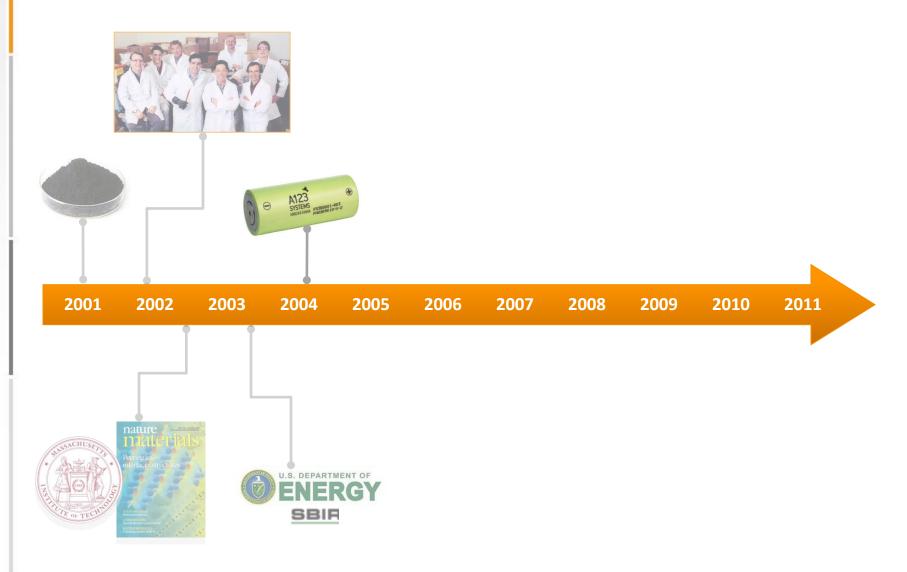




Take the long view

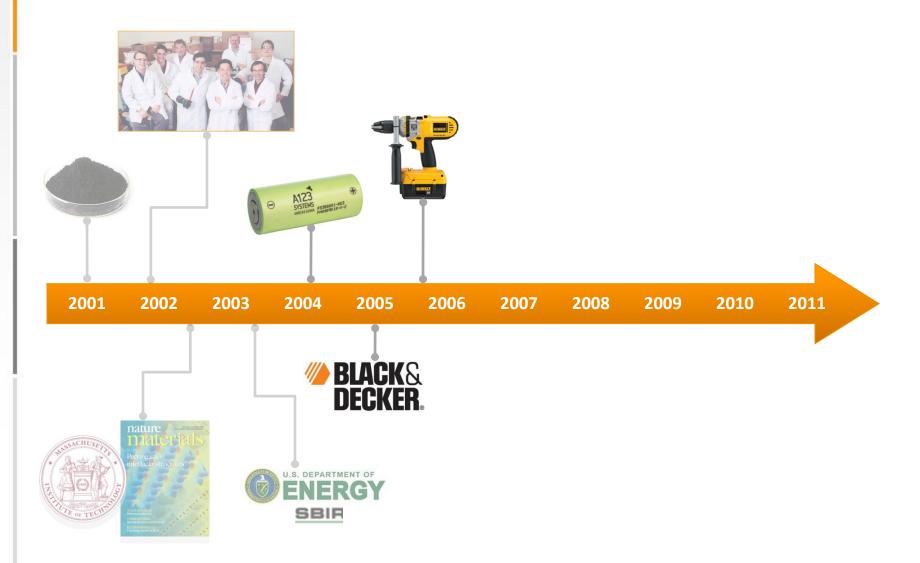








Find a champion





...and set the industry in a new direction

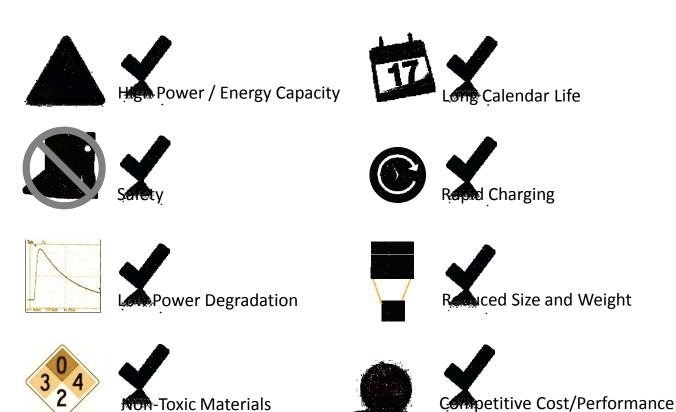
The Power of Corded Without the Cord™

- A123's batteries enabled BDK to create a new generation of power tools that surpassed the performance capabilities of electric power tools and other battery-powered tools:
 - + Higher performance
 - + Faster
 - + Higher power
 - + Lighter
 - + Faster charging



Simplify your message

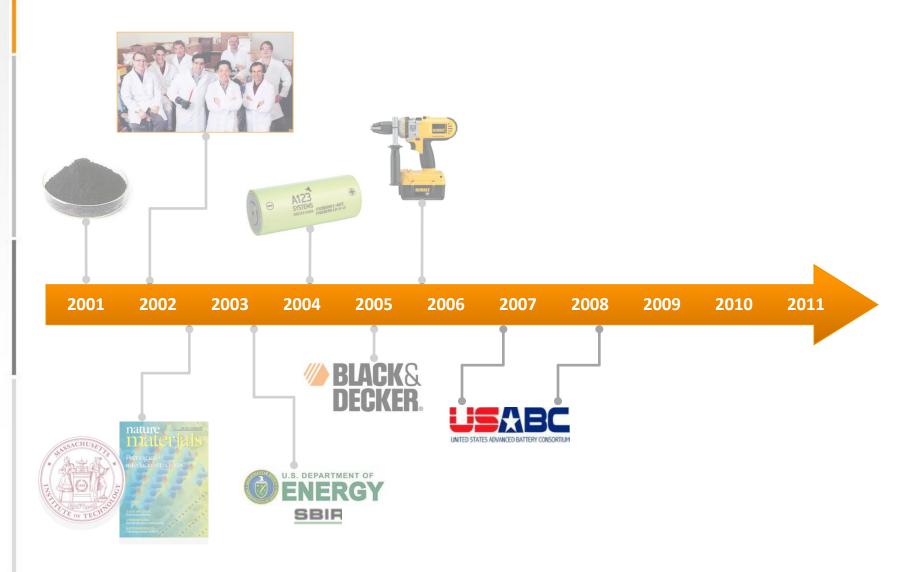




power. safety. life.

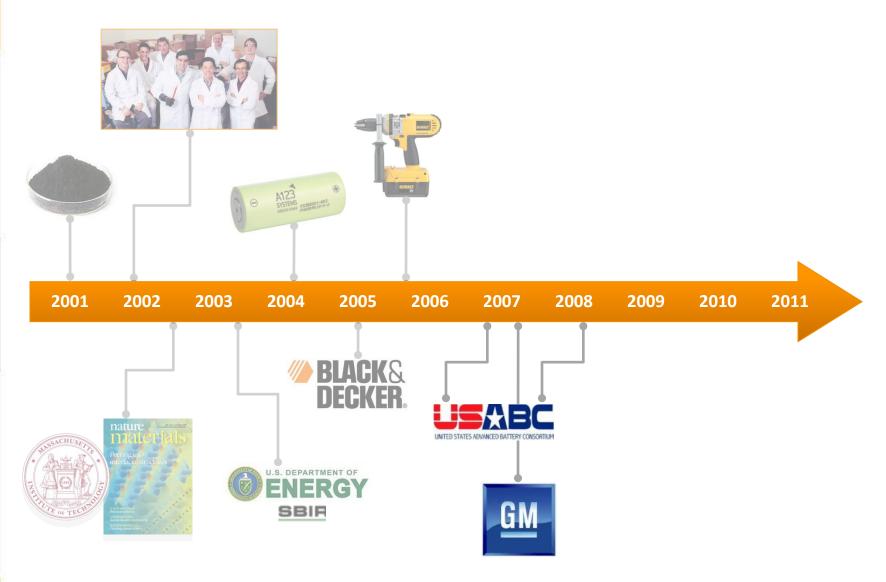
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Get independent third-party confirmation



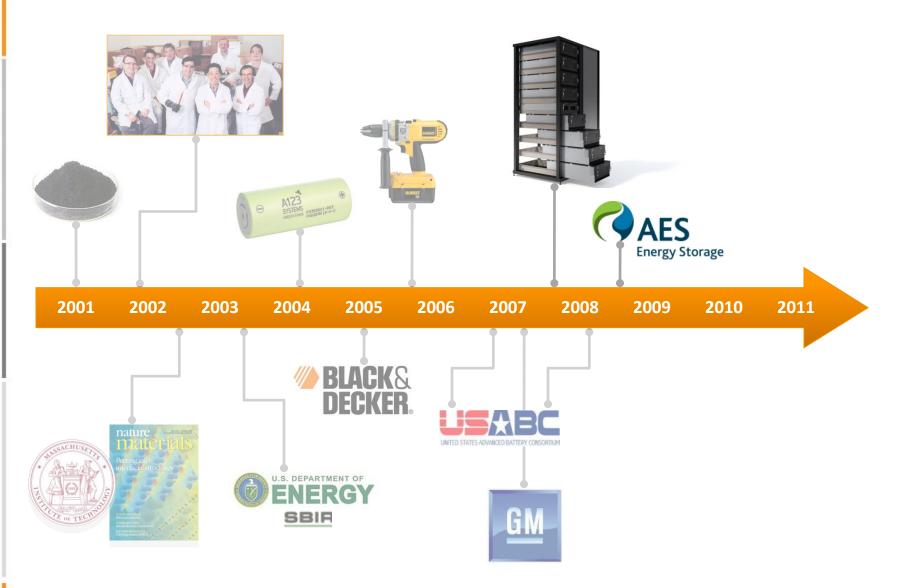


Diversify your customer base



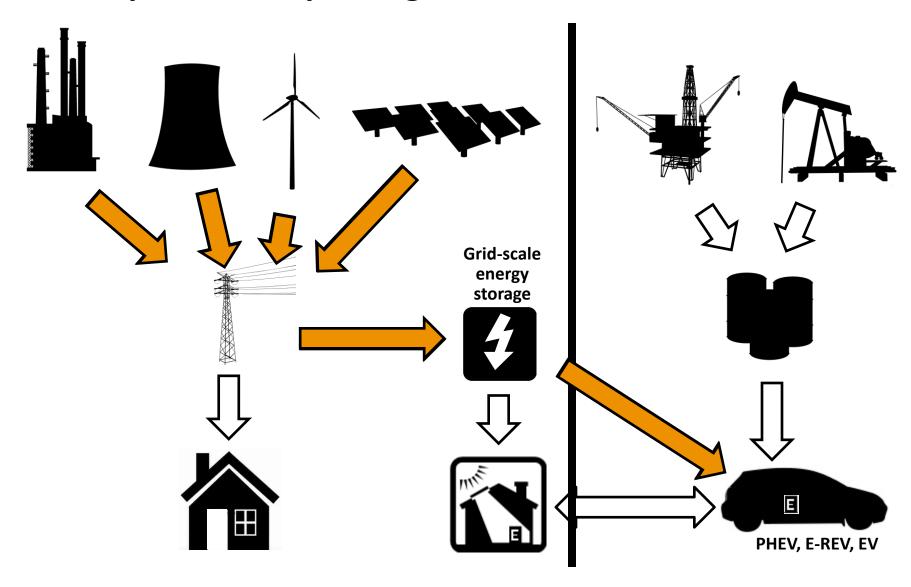


Create the market, if it doesn't exist yet



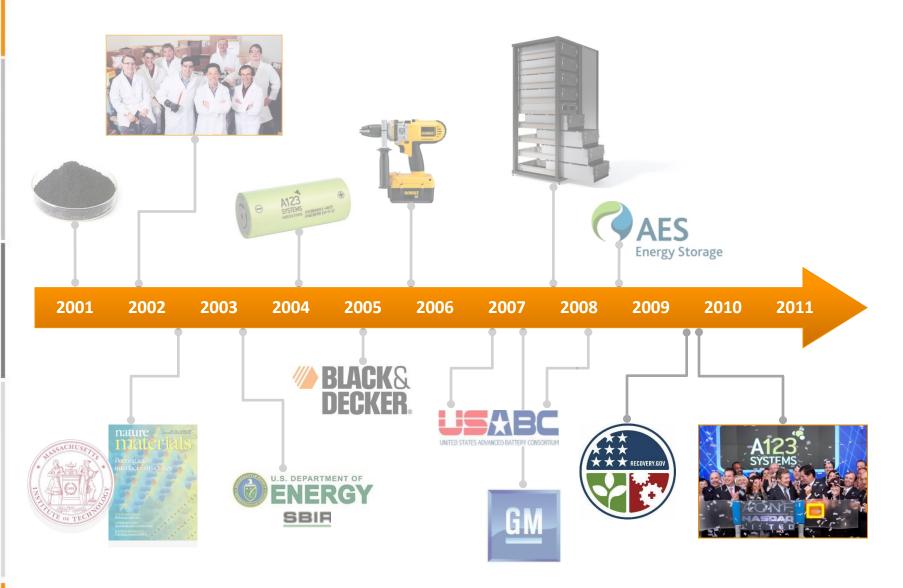


Participate in the paradigm shift



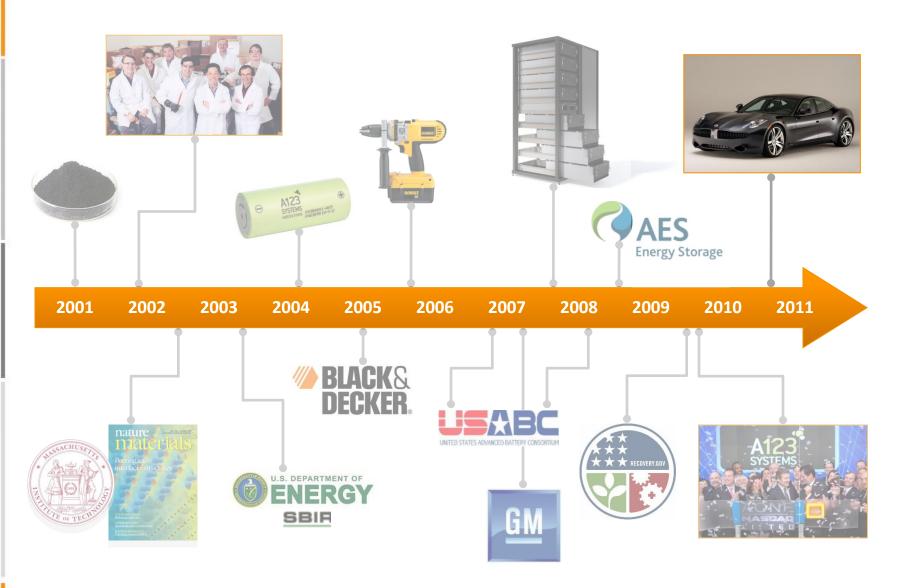


Seize the opportunities that come along





Find partners that share your vision





Our History

