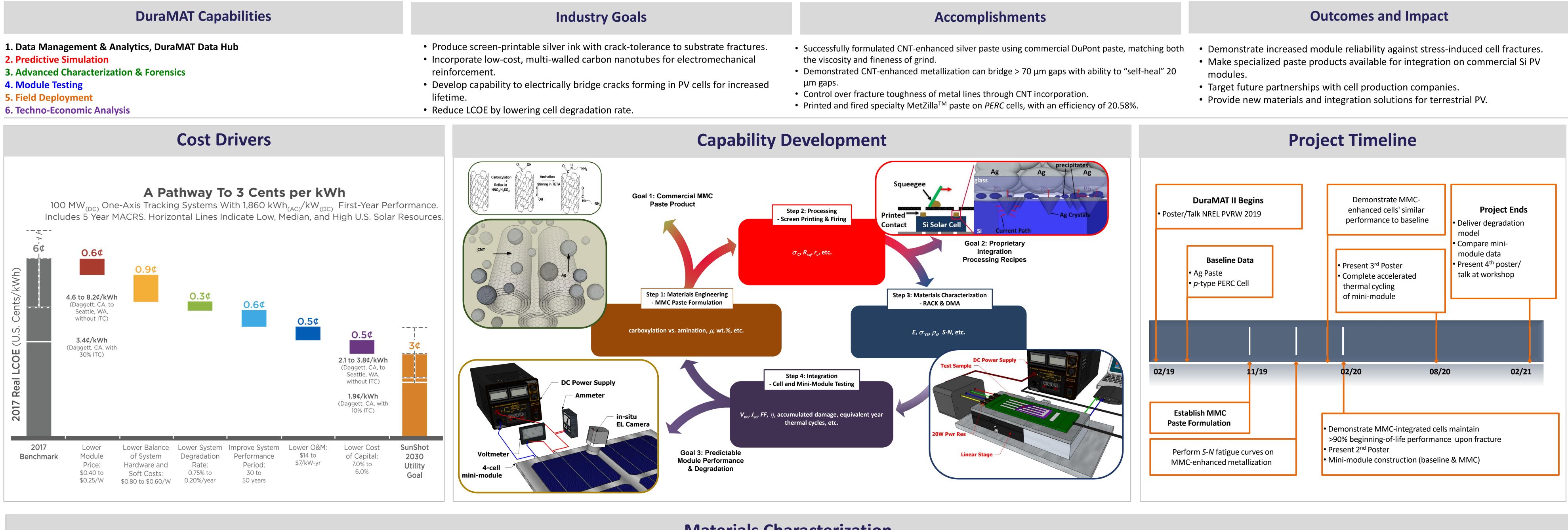
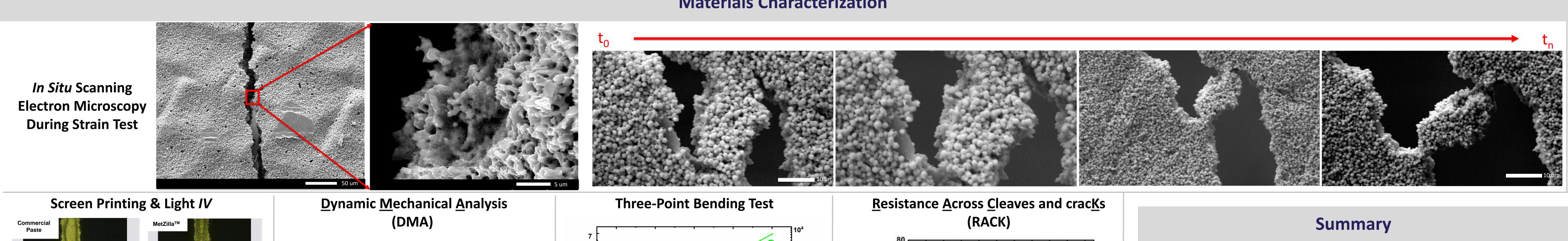
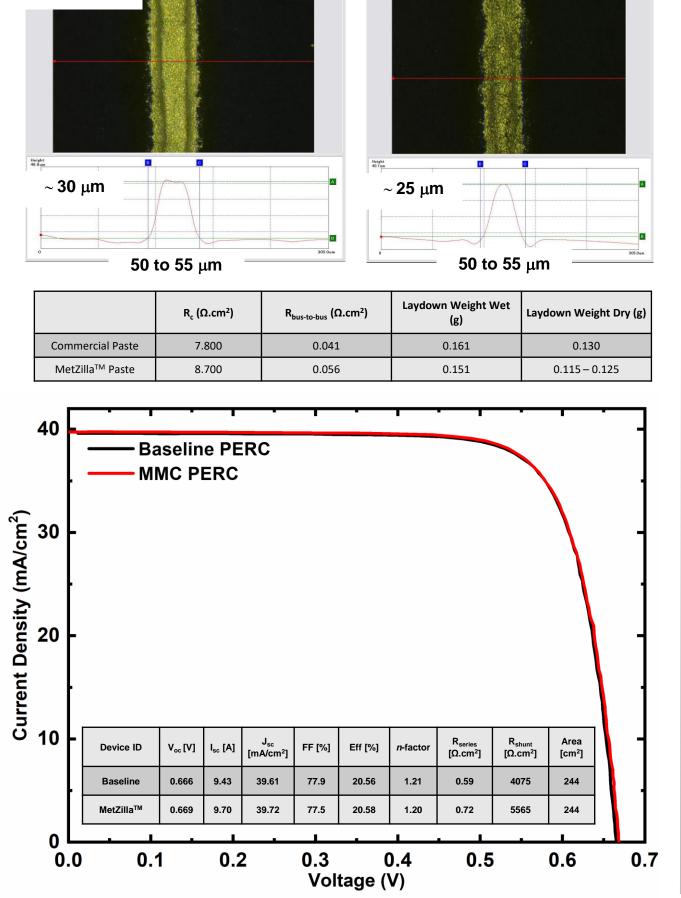


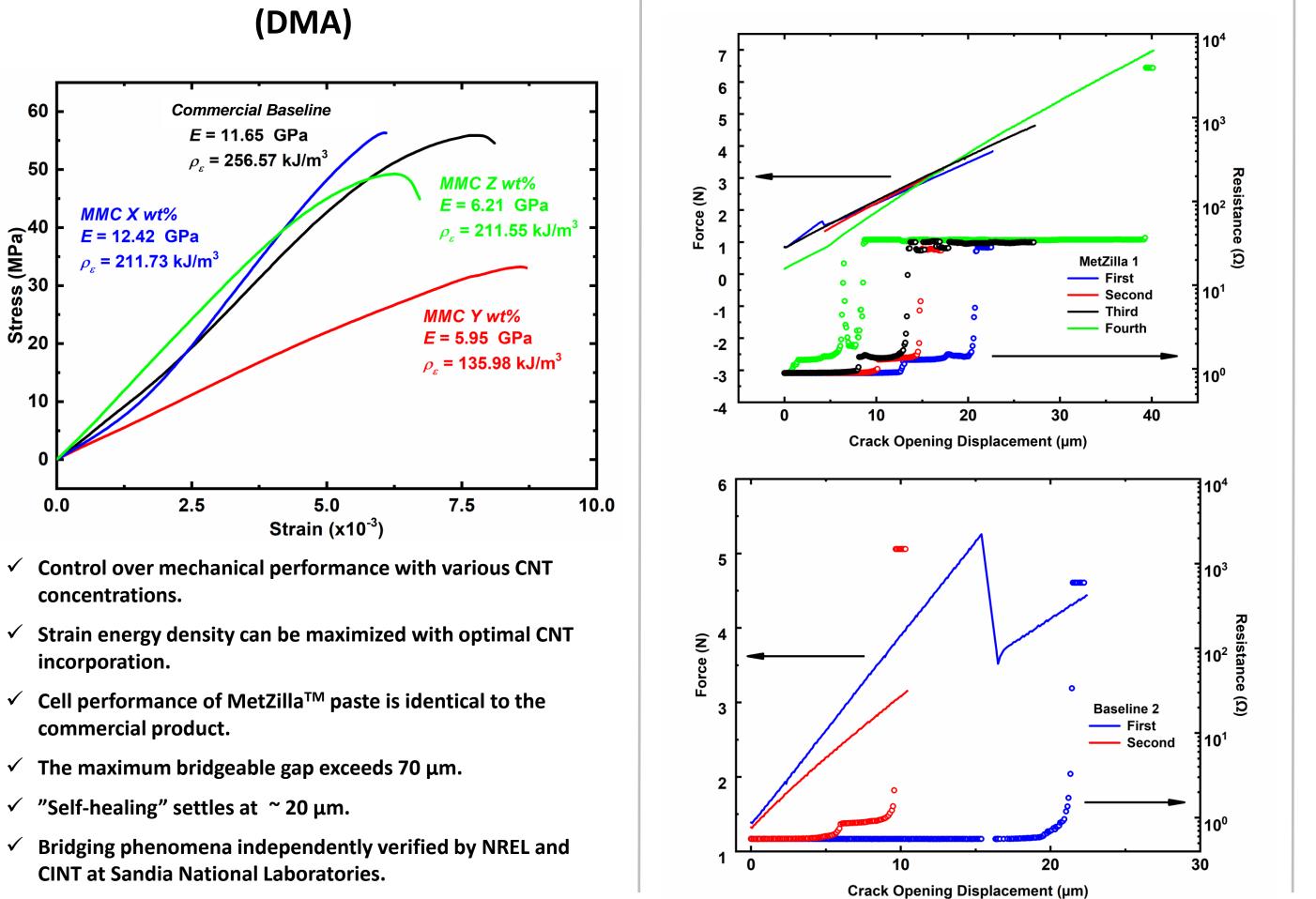
# Low-Cost, Advanced Metallization to Mitigate Cell-Crack-Induced Degradation

Andre Chavez<sup>1,2</sup>, Omar K. Abudayyeh<sup>1</sup>, John Chavez<sup>1</sup>, Sang M Han<sup>1,2</sup>, Brian Rounsaville<sup>3</sup>, Vijaykumar Upadhyaya<sup>3</sup>, Ajeet Rohatgi<sup>3</sup>, Byron McDanold<sup>4</sup>, Nick Bosco<sup>4</sup>, Timothy Silverman<sup>4</sup>, Benjamin White<sup>5</sup>, and Brad Boyce<sup>5</sup> <sup>1</sup>Osazda Energy; <sup>2</sup>University of New Mexico; <sup>3</sup>Georgia Institute of Technology; <sup>4</sup>National Renewable Energy Laboratory, and <sup>5</sup>Center for Integrated Nanotechnologies at Sandia National Laboratories









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**BERKELEY LAB** 







# **Materials Characterization**





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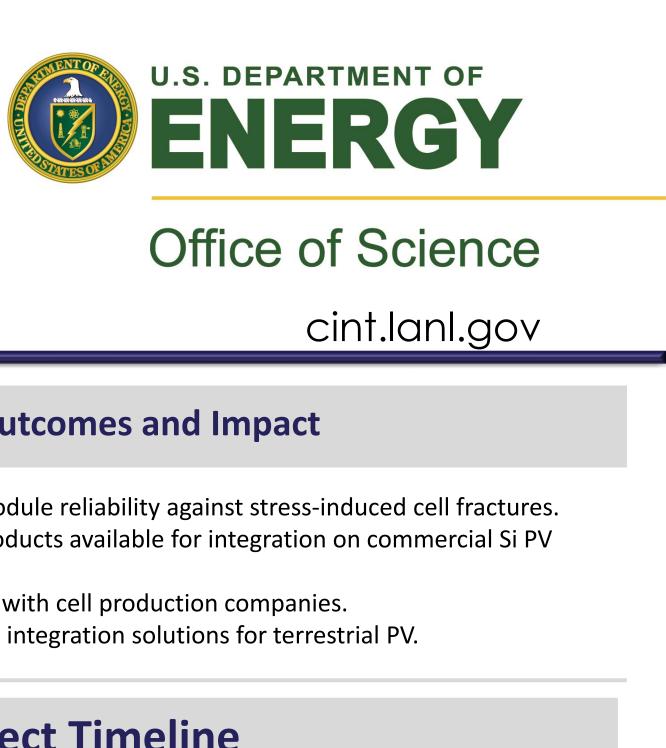
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# **Durability by Deliberate Design; Perfecting a Process that is Engineered to Last**

Osazda Energy, LLC. provides materials engineering solutions to improve solar cell and solar module reliability. Our specialized metal matrix composites have been proven to electrically bridge stress-induced cracks that appear in solar cells; the composites also self-heal to regain electrical continuity. As the solar market is rapidly shifting towards thinner platforms for lower costs and making its way into wearable power systems and unmanned aerial vehicle market, our materials engineering solutions promise substantially improved reliability for solar power systems.

