DexMat

- Name: Dmitri Tsentalovich
- Role: CEO
- Contact: dmitri@dexmat.com

Advanced Carbon-Negative Materials
https://dexmat.com/

- Expertise: Production of high-performance, lightweight Galvorn CNT conductors and assembly of CNT conductors into next generation cables and devices. CNT conductors offer significant advantages in terms of flexibility, lightweight, strength, and corrosion resistance over copper conductors and could significantly reduce UG power line installation costs.

- Expectations: Gain better understanding of critical cost and performance parameters for UG cables. Looking for partners with experience developing and deploying UG cables.

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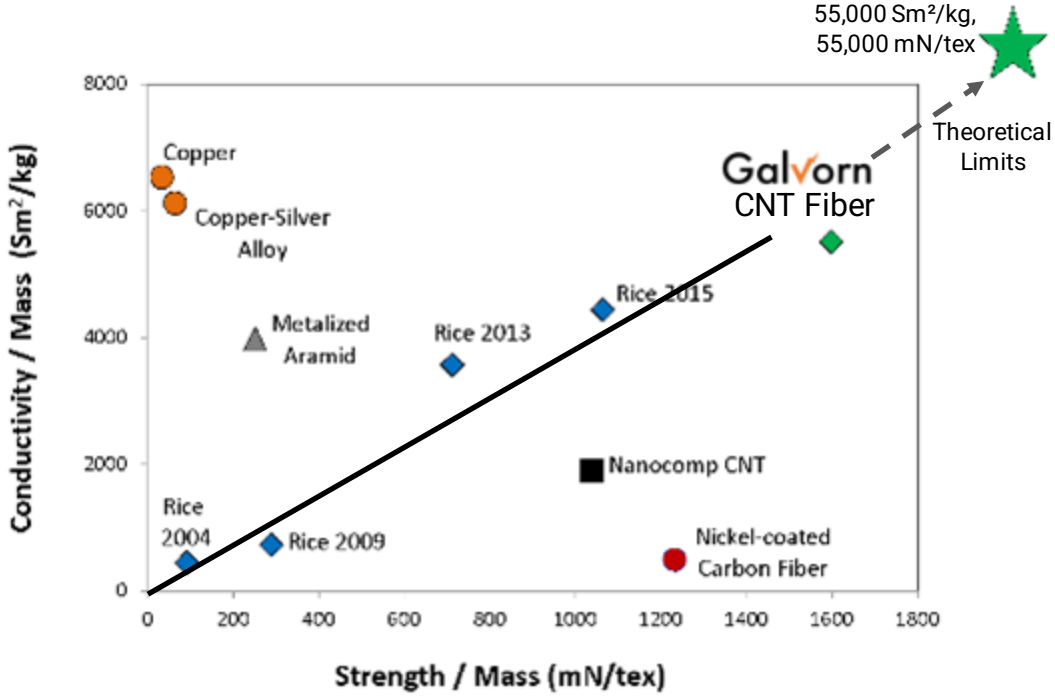

Galvorn twisted yarn, braided yarn, and film products

Galvorn CNT Conductors for Underground Cables

- >25% avg. annual strength and conductivity increase in past 20 yrs
- **High Electrical and Thermal Conductivity** → low power losses
- **High strength** → increases max length to be pulled through conduit
- **Lightweight** → lower drag for lighter cables,
- **Flexibility** → easier for pulling around tight bends
- **Corrosion Resistance** → not prone to degradation due to corrosion

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DexMat's vision is to scale production of sustainable carbon materials from multiple sources to multiple applications

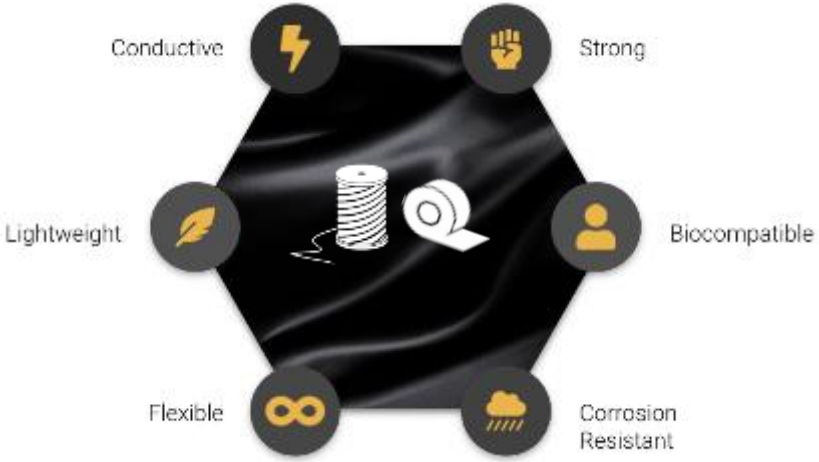
Input Feedstocks

Source Carbon from GHG-neutral and GHG-negative sources

- Methane pyrolysis with H_2 for free
- Biogas / RNG pyrolysis with H_2 for free
- CO_2 captured from air, ocean, industry
- Carbon materials recycled at end of life

Scalable Processing

Large-scale production of CNT fiber and film materials



Diverse Applications

Use the processed CNTs to displace high GHG materials. Markets = 1+ MT/year each.