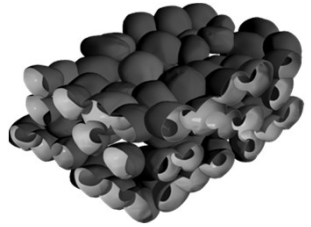
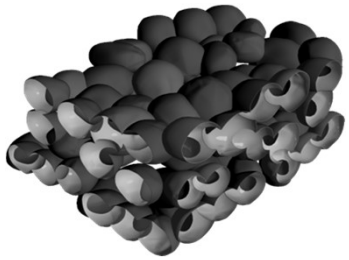
3DC 事業紹介



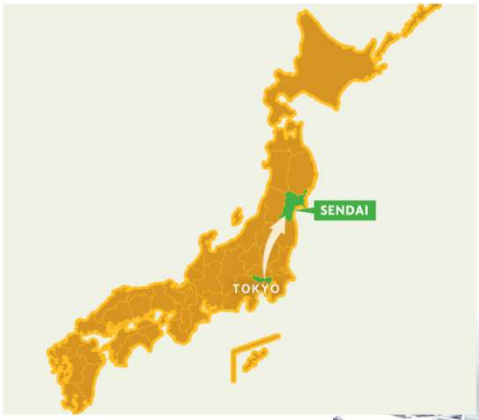
会社概要

社名	株式会社3DC
代表者	黒田 拓馬・西原洋知
設立	2022年2月
所在地	仙台市青葉区片平2-1-1 国立大学法人東北大学 産学連携先端材料研究開発センター
事業内容	炭素材料の開発・製造・販売



東北大学

-日本における材料研究の中心地



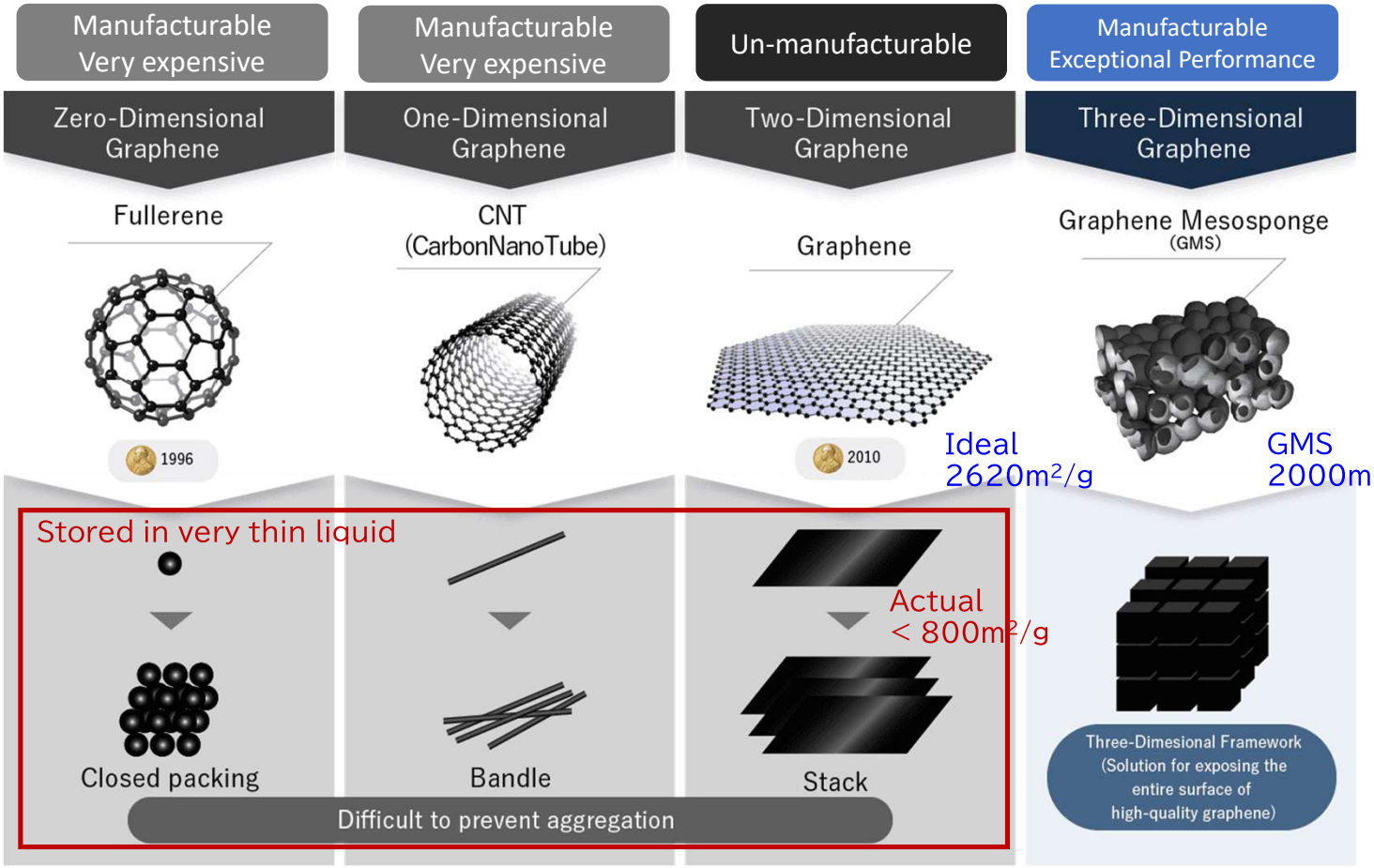
2023-09-01

University News

Tohoku University the Only Candidate Currently on MEXT's "University for International Research Excellence" Shortlist

グラフェンメソスポンジとは？

-東北大学で発明された、新しいナノカーボン材料



Prof. Nishihara
Co-founder of 3DC

グラフェンメソスポンジとは？

-アカデミアでは高い評価を獲得している新しいナノカーボン材料

Plenary Speakers

2010

Professor Sir Andre Geim

The University of Manchester

Sir Andre Geim is Regius Professor and Royal Society Research Professor at The University of Manchester. He has received many international awards and distinctions, including the John Carty Prize from the US National Academy of Sciences and the Copley Medal from the Royal Society. Most notably, he was awarded the 2010 Nobel Prize in Physics for his ground-breaking work on graphene.

More Info

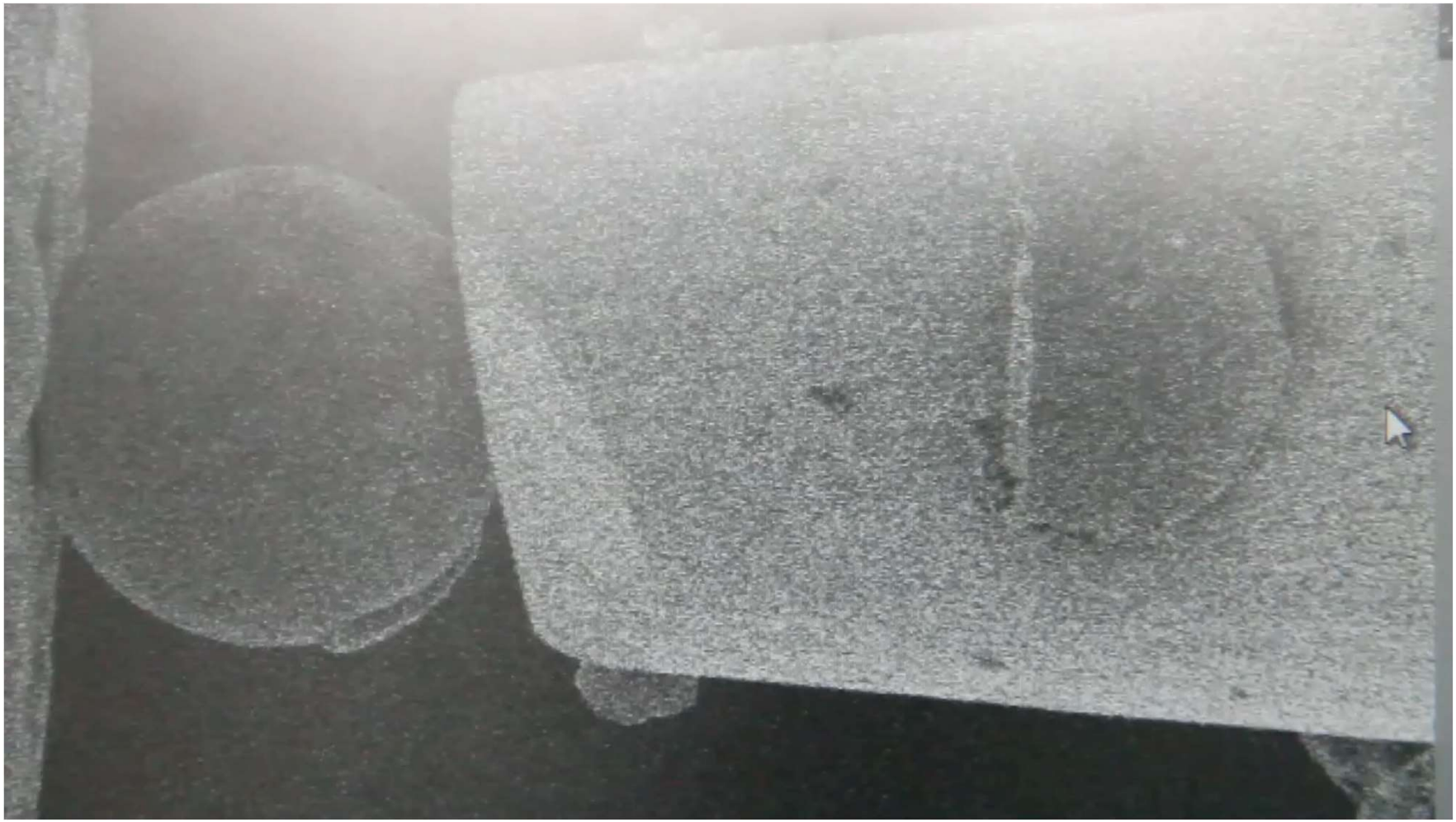
Hirotomo Nishihara

Tohoku University

Prof. Hirotomo Nishihara received his PhD degree in the field of Chemical Engineering at Kyoto University in 2005. At the same year, he got a position of assistant professor at Institute of Multidisciplinary Research for Advanced Materials, Tohoku University. Since then, he has been working on carbon materials, porous materials, and their applications for energy storage, such as supercapacitors, hydrogen storage, and lithium-ion batteries. In 2011, he was promoted to an associate professor, and he has become a member of PRESTO, JST in 2013. He has received many awards such as the Japan Carbon Award for Young Researcher (2008), the Young Researcher Award of the Carbon Society of Japan (2010), the Tokin Science and Technology Award (2012), and BCSJ Award (2014), Gottfried Wagener Prize 2019 "Development of advanced template techniques for functional carbon materials (2019).

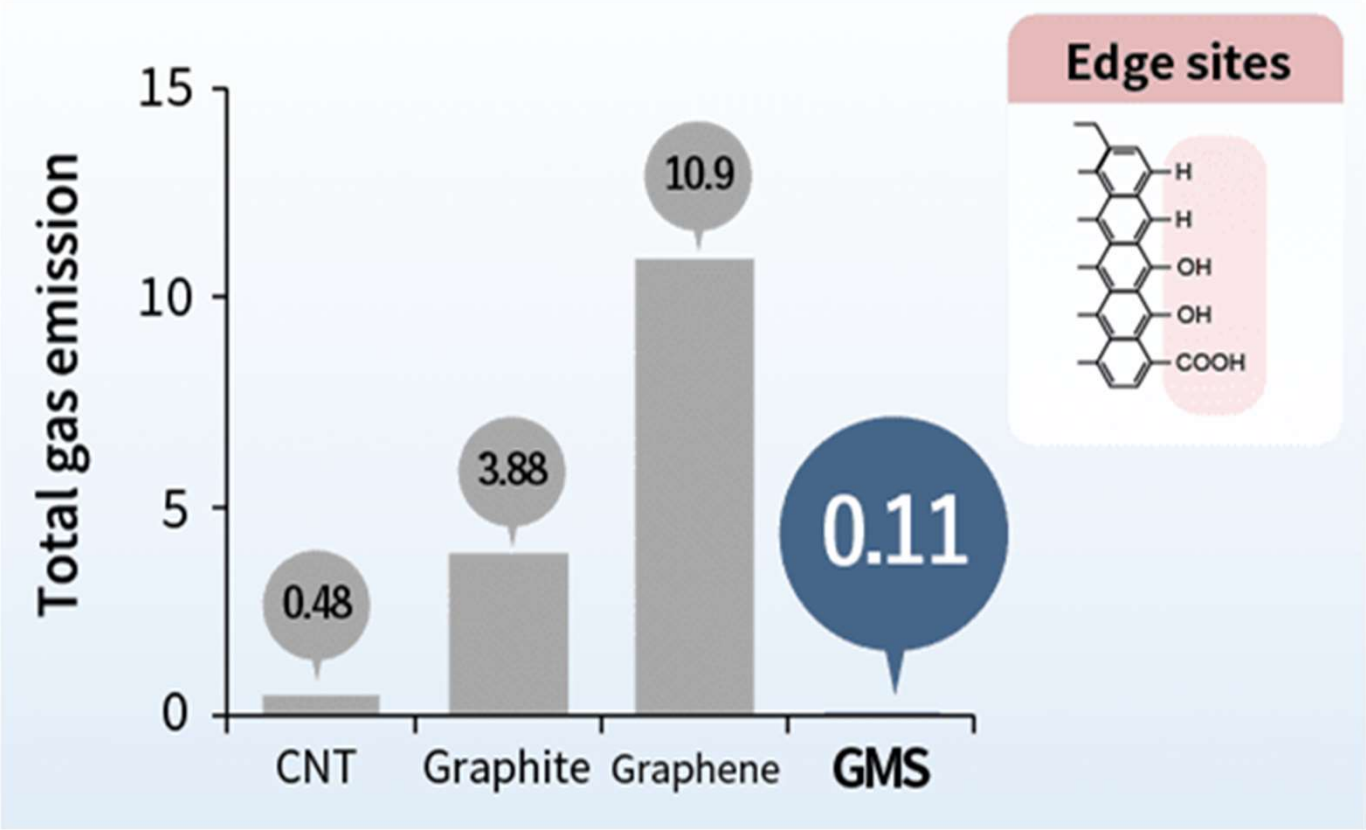
特徴1: 物理的に強い

- 電極内の膨張収縮を緩和する



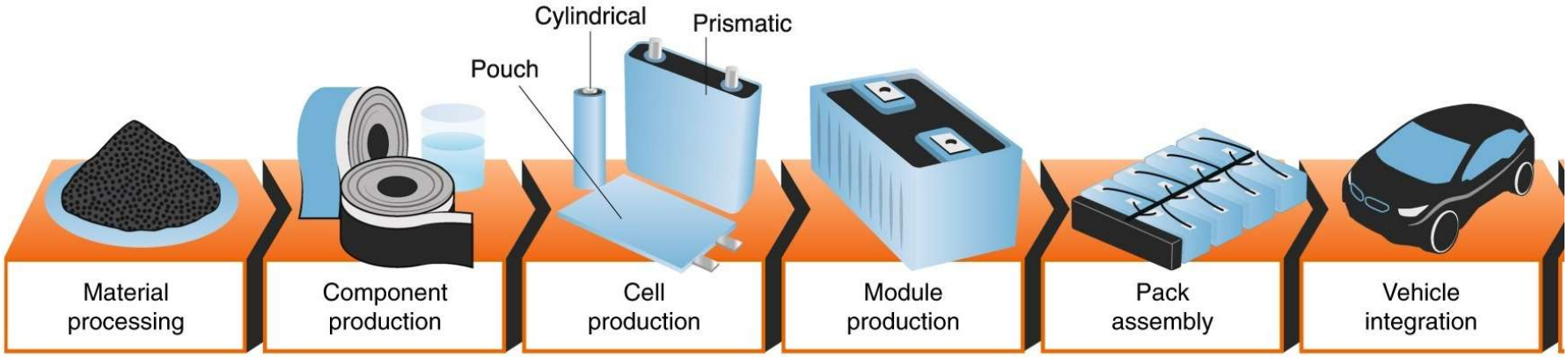
特徴2: 化学的に強い

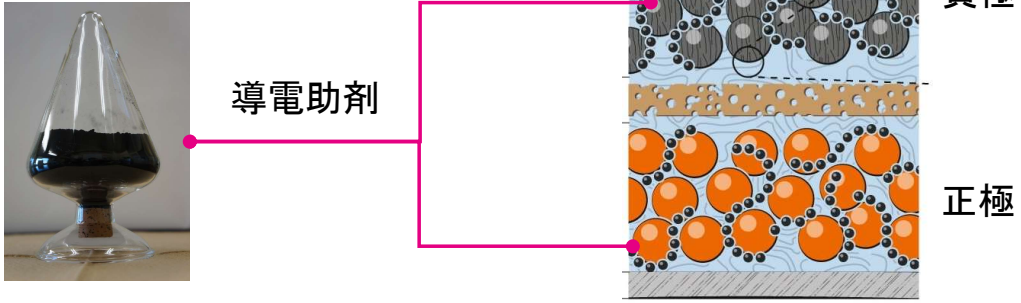
- 化学的にタフな使い方にも耐える（高電圧で使ってもガスが出ない）



リチウムイオン電池への応用：導電助剤

-グラフェンメソスポンジは、リチウムイオン電池の劣化抑制・長寿命化に貢献します





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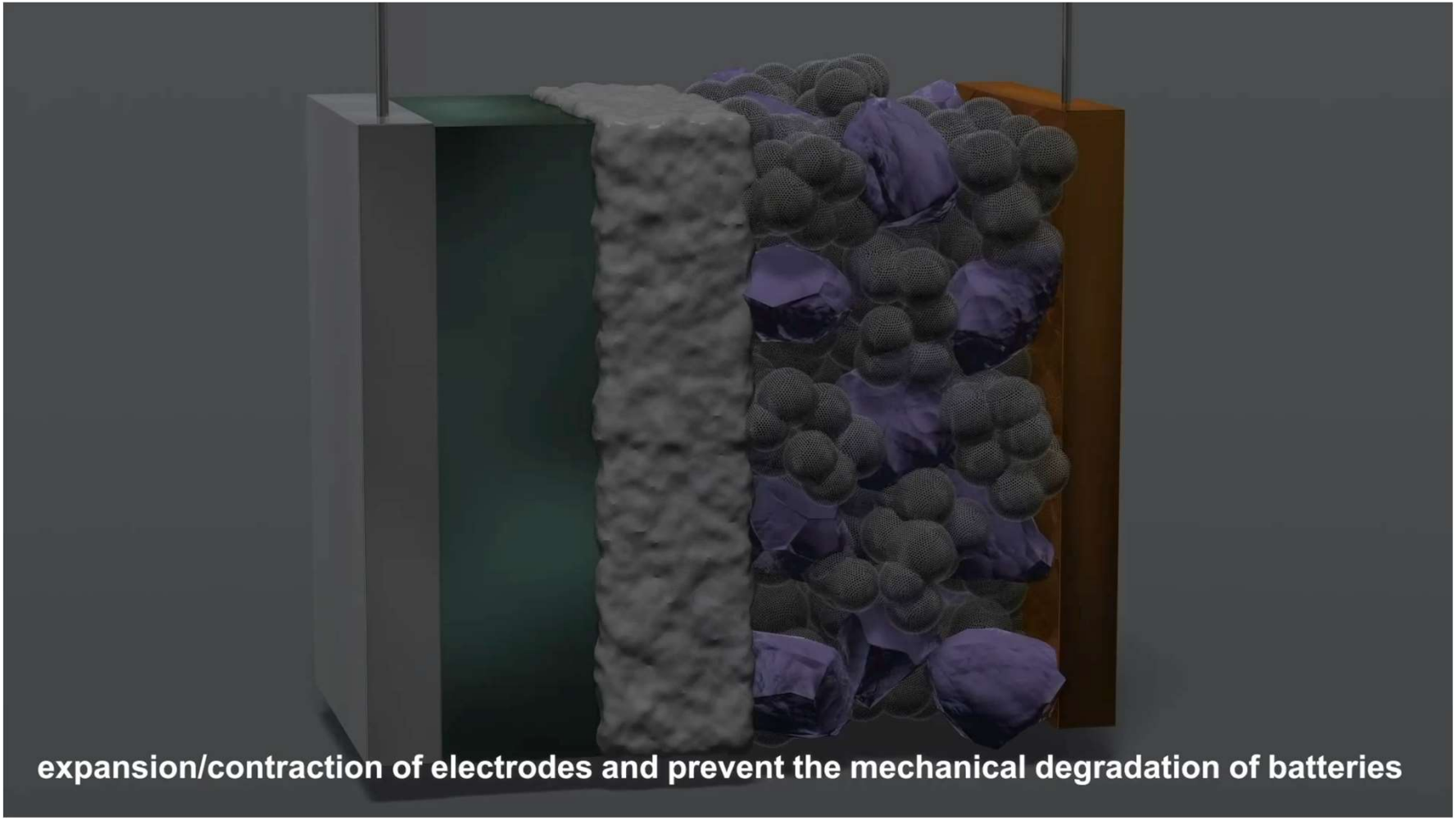

事業体制：東北生まれ、中部育ち

- **岐阜県**の電気炉メーカー様と密に連携し、材料製造を実施中
- サプライチェーンの多くが**中部地方**に存在（製造装置、原材料、顧客工場）