

# Realization of a low carbon society through game changing technologies

**Development of welding / separation integrated technologies by utilizing non-weldable materials**

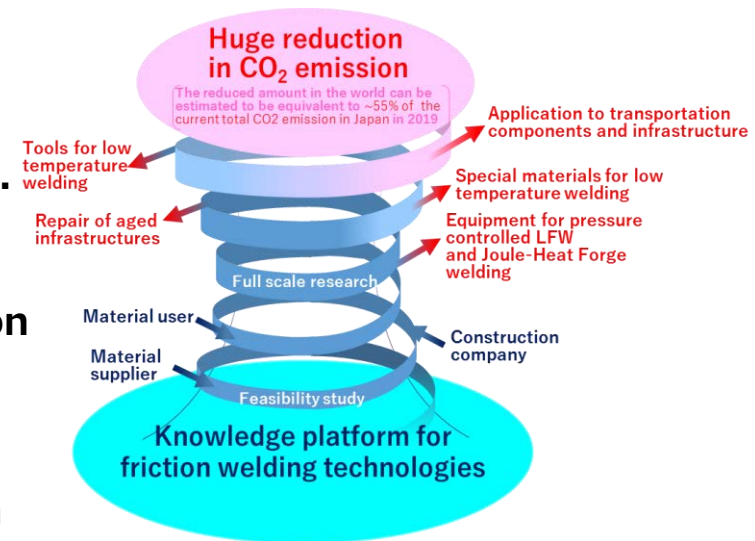
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## Summary :

- Innovative welding technologies will be developed for non-weldable materials to realize a low carbon society.
- Development of Pressure Controlled LFW technology for high carbon steel, lightweight materials, etc.
- Development of Pressure Controlled Joule-Heat Forge Welding.
- Development of FSW technologies for non-weldable materials.
- This project will contribute to the reduction of CO<sub>2</sub> gas emission in the fields of transportation means such as vehicle, airplane and so forth as well as infrastructures.
- The reduced amount in the world can be estimated to be equivalent to ~55% of the current total CO<sub>2</sub> emission in Japan in 2019.



Collaboration for innovative welding technologies

<http://www.jwri.osaka-u.ac.jp/~dpt9/index.html>