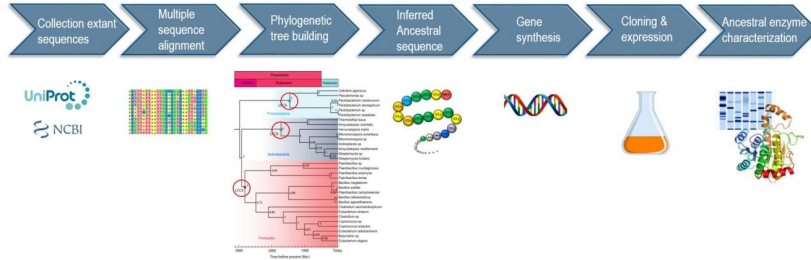


The BioCon project aims to create conductive ink through an innovative process based on graphite/graphene, where the exfoliation process is carried out in the presence of crystalline nanocellulose.

The proposed process is cost-effective, non-toxic, and circular. The conductive ink produced from this process is compostable, renewable, and biocompatible.

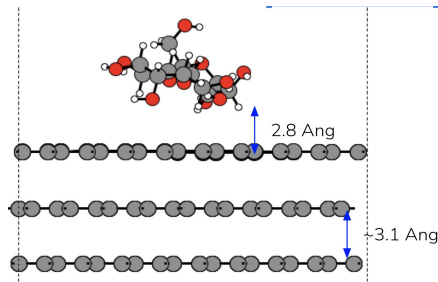
Project funded by Diputación de Gipuzkoa.

PT1. Obtaining Nanocellulose Nanocrystals,CNC (Evolgene)



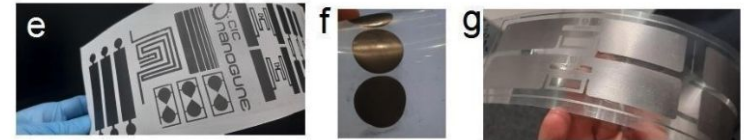
PT2. Simulation of Component Properties (SIMUNE)

Representation of the system (lateral view) of a nanocellulose molecule positioned on top of three layers of graphene.



PT3. Process Optimization and Validation (CIC-NanoGune)

- Size and Nature of the Particles
- Influence of the Final Solvent
- Conductivity Tests
- Mechanical Properties



Screen-printed and compressed ink patterns on paper and PET.