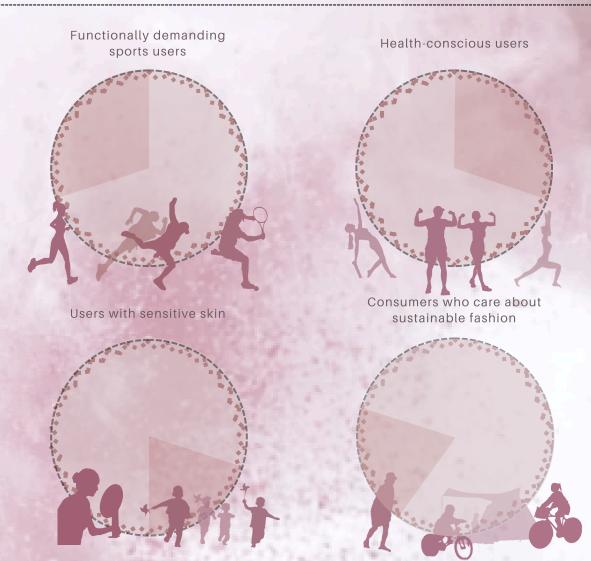
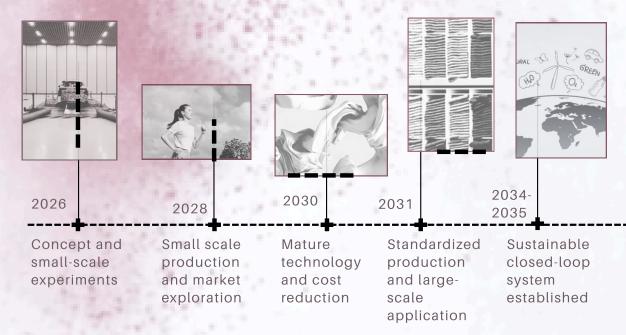
Rosa

Biotherapeutic functional fabrics designed for future athletes and health-conscious users

Target Users



2025-2035 Rosa Fabric Development Timeline



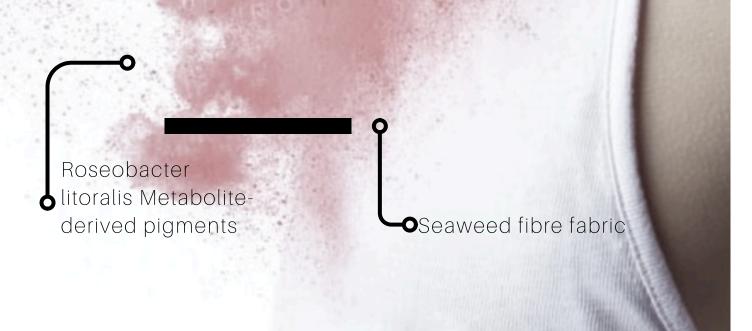
Preferable Future

In the future, natural dyes and fibres will become mainstream. Clothing will no longer be just about covering the body, but about the positive impact on health, skin and mind. The wearing experience will be more sustainable and tailored to the needs of the body and mind.

Outcome & Impact

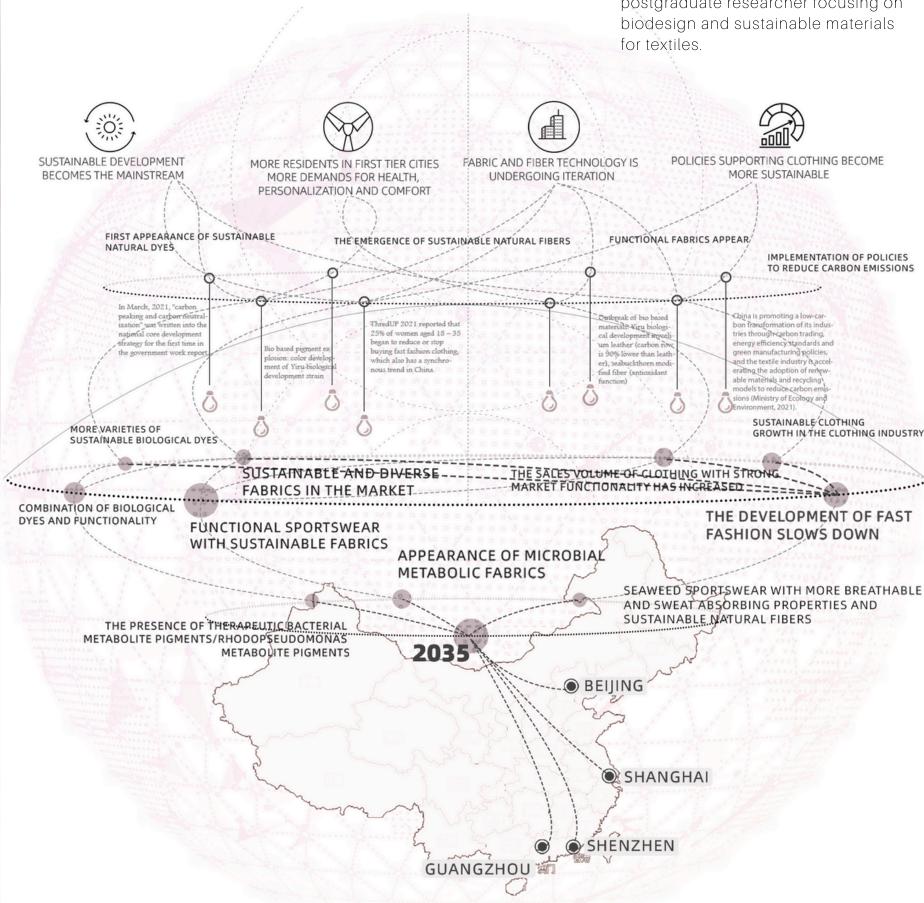
REFERENCES

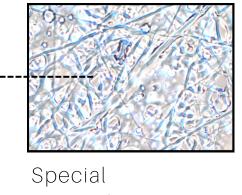
The project not only develops a new sustainable fabric prototype, but also aims to redefine the meaning of clothing. Clothing is no longer just about looking good and keeping warm, it is also a medium for skin protection and ecological engagement.

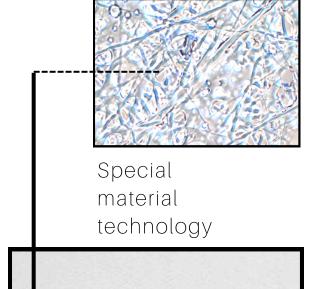


Wenjinhan Chen

I have a background in Fashion Management and am currently a postgraduate researcher focusing on

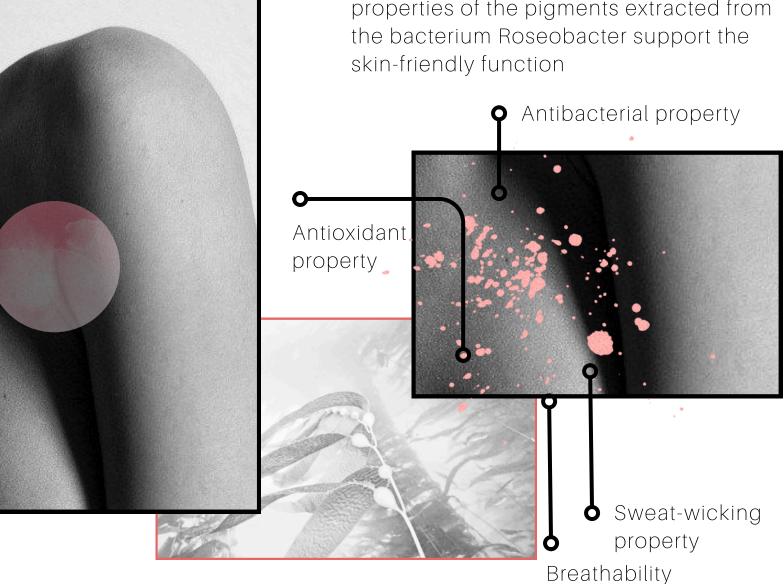






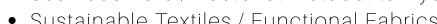


- High water pollution and carbon emissions from the textile industry
- Growing consumer demand for healthy, comfortable wear
- Seaweed material has outstanding breathability and perspiration, providing new possibilities for functional fabrics
- The natural antimicrobial and antioxidant properties of the pigments extracted from the bacterium Roseobacter support the skin-friendly function



Keywords

- Seaweed fibre / Bacterial Metabolite Dyes
- Sustainable Textiles / Functional Fabrics



- Healthy Wear





[2] Buchan A, González JM, Moran MA. Overview of the marine roseobacter lineage. Appl Environ Microbiol. 2005 Oct

[3] Anaerobic thiosulfate oxidation by the Roseobacter group is prevalent in marine biofilms. Nature Communications, 14, 2023. 4] Liu, B., Chen, L., Qu, C., & Qin, Z. (2023). Seaweed fabric research and application for the field of elderly clothing technology. Advances in Social Science,

5] Liu, H., & Zhang, Z. (2022). National Fitness Program in China: Policy development, challenges, and future trends. International Journal of Sport Policy and