



## Bioverso – a model for the meta-museum

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### Introduction

One of the aims of the National Biodiversity Future Center (NBFC) is to enhance awareness of the role of biodiversity for human, animal, and ecosystem health. In a post-pandemic social context, communication fosters dialogue among science, society, and diplomacy. In this context, we developed Bioverso as a digital environment for recounting biodiversity through innovative forms of experience and participation.

### Materials and Methods

Bioverso represents the digital translation of the exhibition In Praise of Diversity (Palazzo Esposizioni, Roma, 2024). It is interactive, scalable, digitally accessible (smartphones included), and can be installed permanently in a museum context. The platform includes digital *rooms* dedicated to terrestrial, marine, and urban biodiversity. The narrative adopts a One Health perspective, drawing on contributions from *real human* experts in genetics, psychiatry, botany, and administrative law.

### Results and discussion

Bioverso is an example of how communication can serve as an infrastructure, translating scientific complexity into user-friendly experiences. During Research Week (April 2026) in Boston, we integrated physical installations and digital environments and extended engagement with biodiversity beyond the. Ultimately, with Bioverso, we positioned the NBFC as a strategic research center by reinforcing the role of science in society and in international diplomacy.

### Future perspectives

Bioverso can be considered a prototype of a meta-museum, where research, education, and participation can converge. Museums can evolve into active knowledge platforms. In the future, integrating interactive modules for data collection and perception may enable participatory dynamics and data-responsive environments, opening up science (and) communication research approaches in the new digital twins era.