

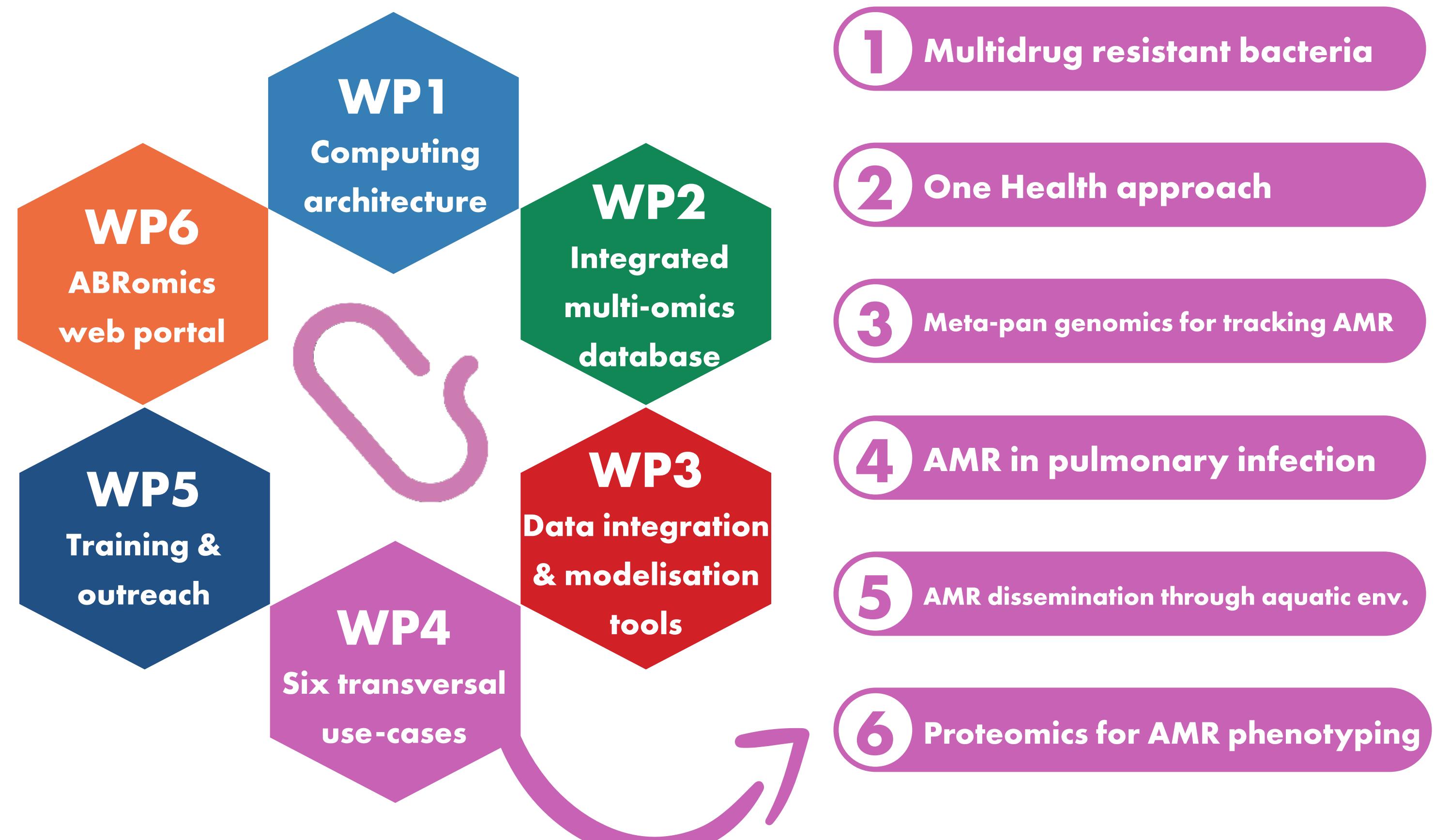
# A Galaxy-based One Health Antimicrobial Resistance Platform

Pierre Marin, Bérénice Batut, Kenzo-Hugo Hillion, Cléa Siguret, Raphaël Tackx, Julie Lao, Nadia Goué, Gildas Le Corguillé, Consortium ABRomics, Fabien Mareuil, Philippe Glaser, Claudine Médigue

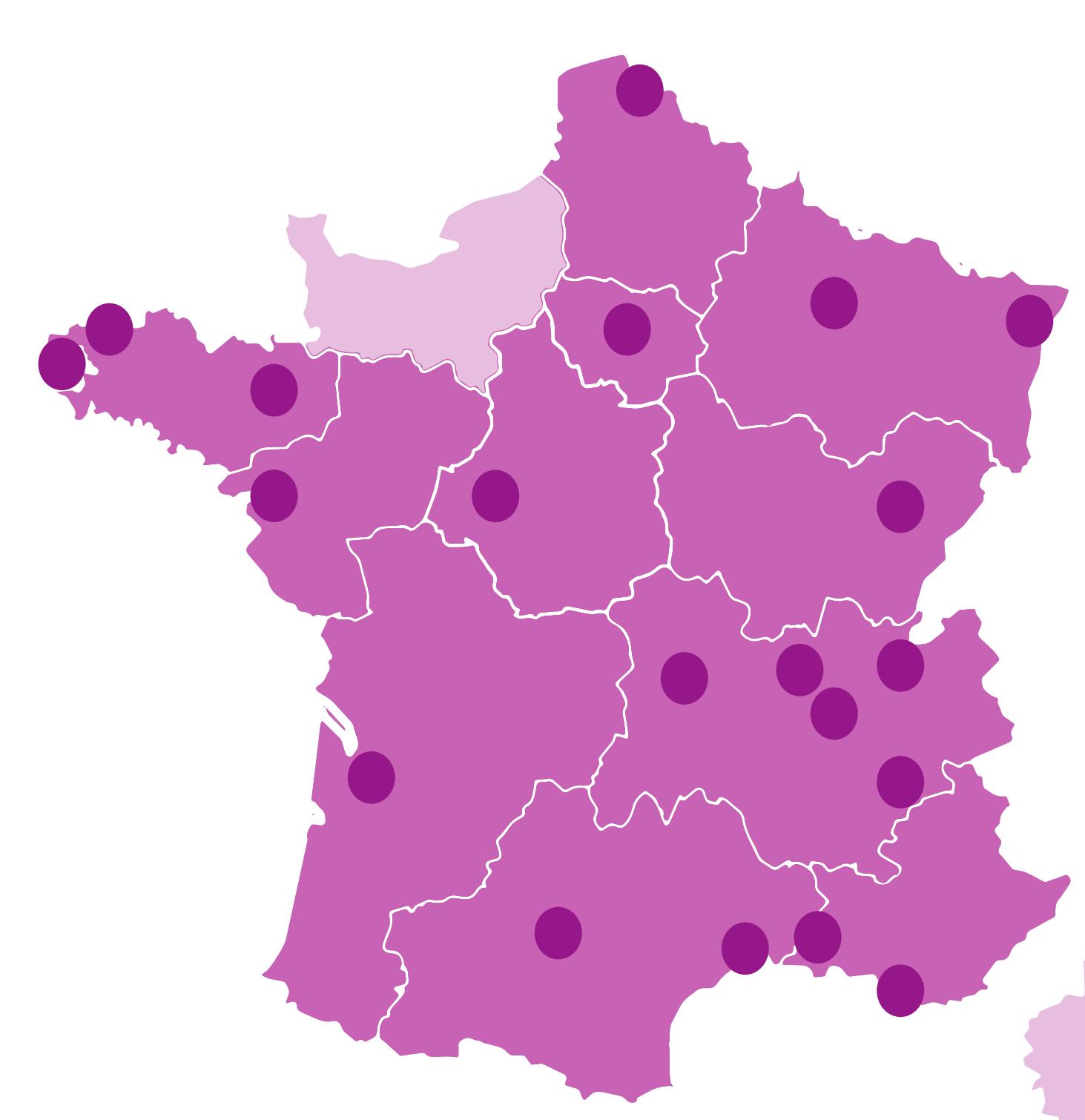
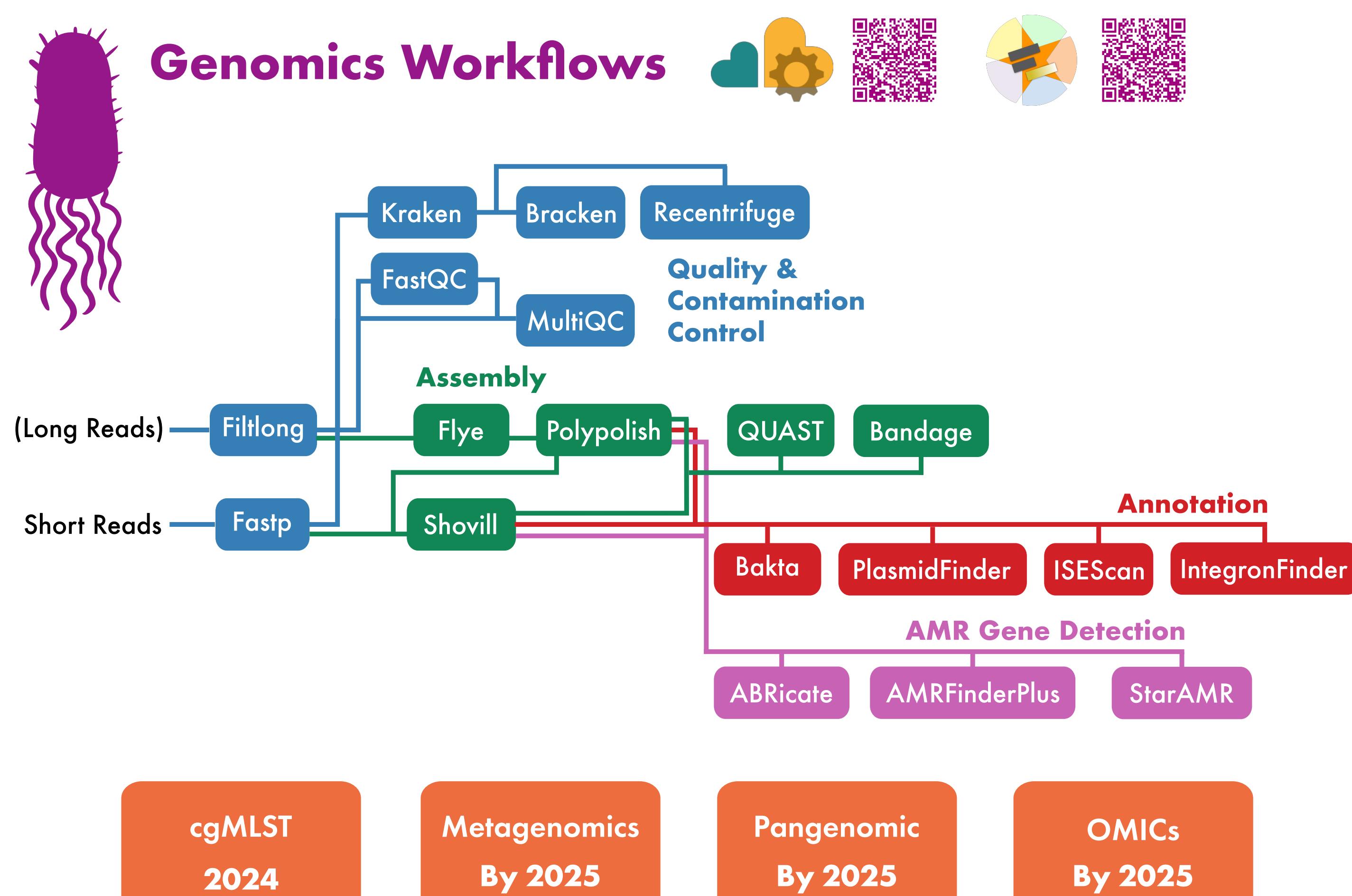
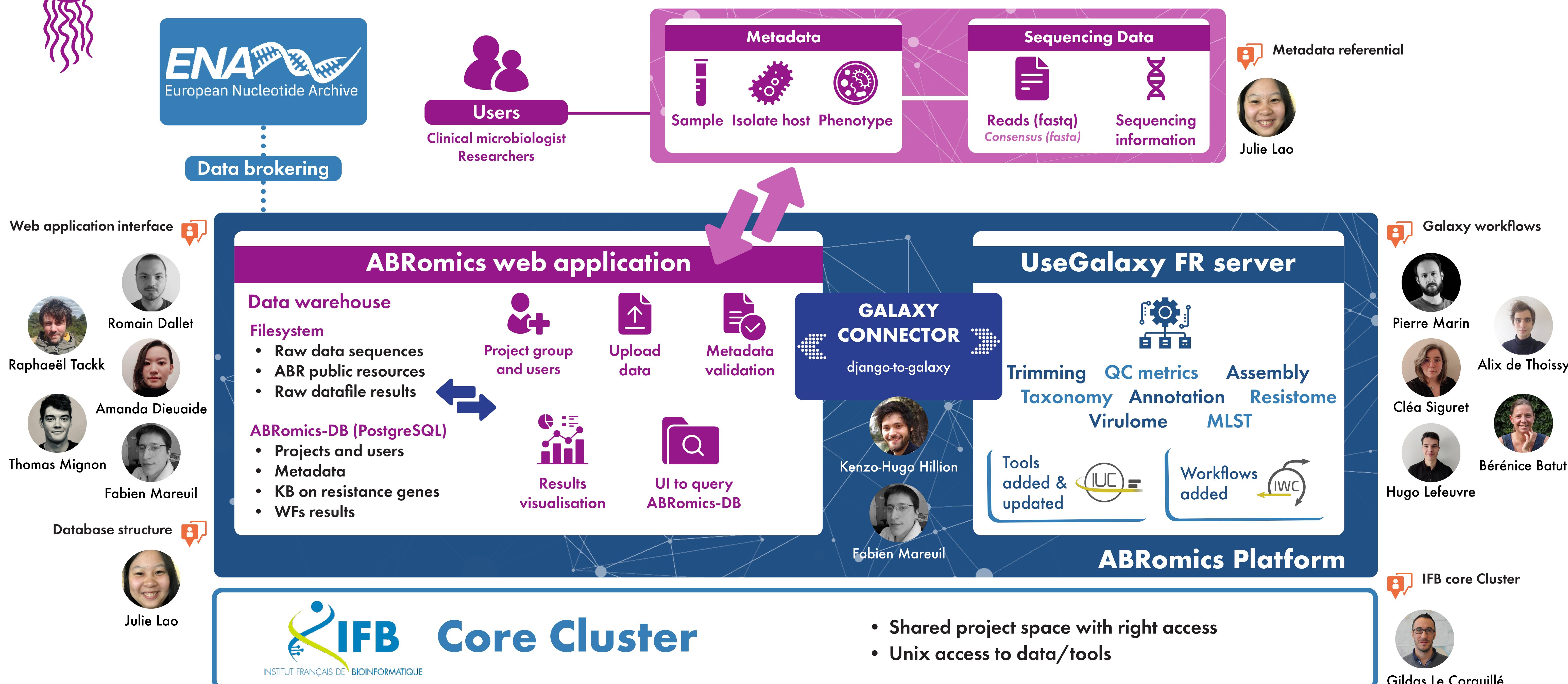
Corresponding authors: clea.siguret@france-bioinformatique.fr,  
claudine.medigue@france-bioinformatique.fr

Antibiotic Microbial Resistance (AMR) is a major public health issue prioritized by international institutions. Funded by the French Priority Plan on antibiotic resistance (2M€; 2021-2025), we are developing a shared platform to assist AMR surveillance across human and veterinary medicine, including environmental and food isolates. It is made of :

- a repository of structured, interoperable, standardized and well-annotated multi-omics microbiological data from human, animal and environmental origins
- with an up-to-date arsenal of mathematical and bioinformatic tools to answer generic and specific research questions related to AMR.



An online community-driven platform to scale up and improve surveillance and research on antibiotic resistance from a One Health perspective !



**ABRomics consortium**

- Effort at the national level : 43 research teams and platform!
- Multidisciplinary consortium
- Includes all National Reference Centers for antibiotic resistance
- Coordination by the French Institute for Bioinformatics (Claudine Médigue) and Institut Pasteur (Philippe Glaser)

ABRomics website

