

# Where are the gaps towards a standardized care network?

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# The need: speed, focus and coordination

- **Access to a well-functioning clinical research network representing top 5 countries in Europe (i.e. not starting from scratch to design and establish a new network)**
- **Encompassing the full spectrum of healthcare establishments (community clinics, acute care, rehabilitation, home care)**
- **Sharing common and standardized procedures for :**
  - Patient care and management
  - Diagnostic procedures
  - Follow-up and outcome measures of the condition/infection
- **Generating all necessary robust evidence through the conduct of relevant clinical trials evaluating the benefits of diagnostic tests to combat Anti-Microbial Resistance (AMR)**

# Comprehensive access to micro-organisms and clinical samples

- Extensive collection of samples addressing the targeted condition(s) such as Acute Respiratory Tract Infections (ARTI's)
- Fully characterized and annotated samples with shared and common standardized methods (“standard” diagnostic assays vs. “innovative” diagnostic assays)
  - Host response / immune status
  - In depth characterization of pathogens (ID / AST / WGS / typing)
  - Extensive clinical patient information, including outcomes
- Accessible clinical information database and biobanks interfaced with clinical laboratory / hospital information system (LIS/HIS)
- “Pseudonymized” information accessible to all investigators and EU-compliant with respect to confidentiality

# Standardization

- **Standardized collection and exchange of information (diagnostics, therapeutics, clinical information, health-care interventions & costs)**
- **Common language of patient care management / treatments**
- **Information systems operating with remote access**
- **Compliance with existing regulatory bodies**
- **Clinical and lab databases accessible for data mining, meta- analysis, “Big Data” analytics**
- **Database architecture compatible with interactive user interface to facilitate medical decision-making**

# Sustainability

- **Organizational and network model allowing its extension / duplication to future additional studies related to Infectious Diseases; possibly other diseases**