Timeline (time axis): 0 — 1 hour — 2 hours — Evening of the day ~ the next day → time

physician

- suspected infectious disease
- Specimen collection and transportation to the microbiological laboratory

Empirical broad spectrum antibiotic administration

issue
Turn around time for Gram staining is half a day to 2 days

Change antibacterial drug by looking at the culture results

issue
Patient prognosis worsens
Risk of AMR increase
Prolonged hospital stay

Lab technician @microbial laboratory

Delayed inspection start

Start of Gram stain and report of results

issue (The strongest issues that have become apparent)
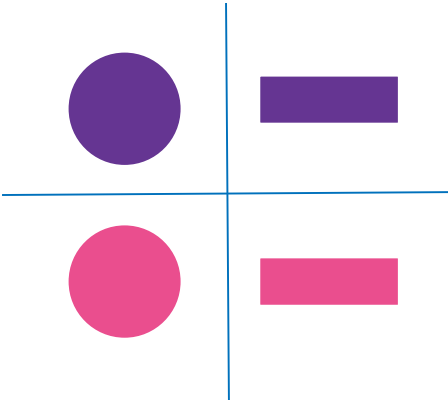Excessive work burden of Lab technicians
Lab technicians spend 40% of their time on Gram staining
Less than 5% of healthcare facilities perform 24h Gram staining

Our roadmap for detailed development

Aiming for detailed bacterial species classification by improving AI accuracy and updating

**Phase1
Launch in 2024** → **Phase2** → **Phase3**

4 morphological classification

Over 20 morphological classification

More detailed bacteria species determination

MRSA v.s. MSSA

penicillin resistant

penicillin susceptibility