

Introduction to Sorsix and Pinga

Solving Human Health

SORSIX

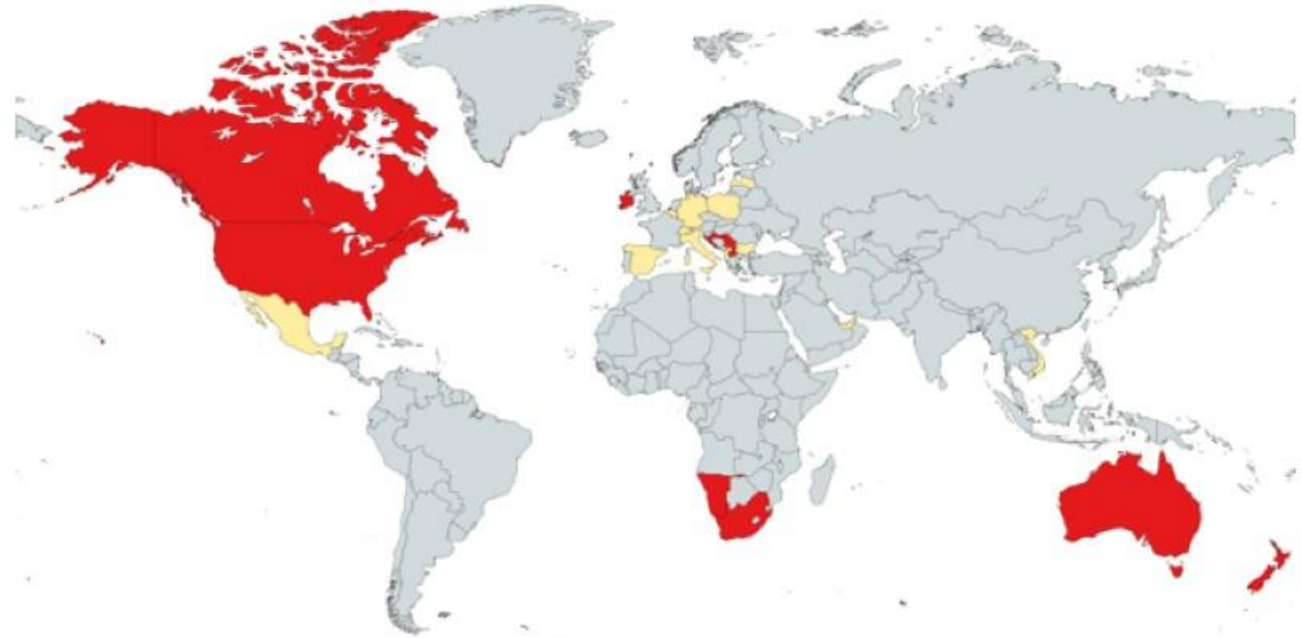


Introduction to Sorsix

Solving Human Health

Company

- HQ in Aus
- Main development office in Skopje
- 160+ headcount, growing, 80% engineers
- Focused on healthcare
- Global customer base (map: red = customers; yellow = partners)



Products

- Pinga – configurable platform for healthcare delivery, 'Health Operating System'
 - Productised modules include full EHR, EMR, HIS/LIS/RIS, Population Registers, Clinical Pathways
 - All healthcare verticals covered by at least one deployment
- Vertical-specific sub-products based on Pinga configurations (e.g. dedicated Radiology solution, LIS, etc)
- Only product with **nation-scale end-to-end deployments globally**



Some numbers

The healthcare flow

Global activity

- Lifetime usage: over 2.5bn clinical interactions processed by Pinga
- Approx. 100k unique users per day, majority clinicians
- Over 600 integrated software applications

National scale and innovation

- Sorsix 'started big'
 - First Pinga deployment was a full-country system
 - This experience powers our large private deployments also
- We delivered the first functional e-referral in Australia (as well as in Macedonia and Serbia)
- The system has functioned with five-nines uptime in Macedonia over the past 12 years and continues to operate





Pinga for Public health

National transformation

The Macedonia story

Rapid outcomes

- Full-country, single EHR active in **just 12 months** (for Serbia, it was **6 months**)
- A full medical record for **every citizen**
- A full **population register for vaccination and immunization**
- Real-time data enabling **infectious disease management**
- Real-time **prescription usage data**

National scale and innovation

- The product scales to **whole-country deployments**. The system works in any system and at any scale
 - Private clinic deployments
 - Full public system
 - Single-program deployments (e.g. vaccination in Macedonia; breast screening in NZ)
- Over 100k daily users worldwide



'National Health Operating System'

A new idea for healthcare

What if we designed the 'healthcare tech stack' from scratch?

- Modern healthcare is delivered through a maze of systems, often siloed or lacking integration
- We propose a fundamental reset of the fabric – **build the system as it should have been built**
- This is possible while **maintaining backwards compatibility**
 - Almost all legacy software does have some integration capability
 - Starting with the right base enables the parts to 'snap in place' as the system is built out

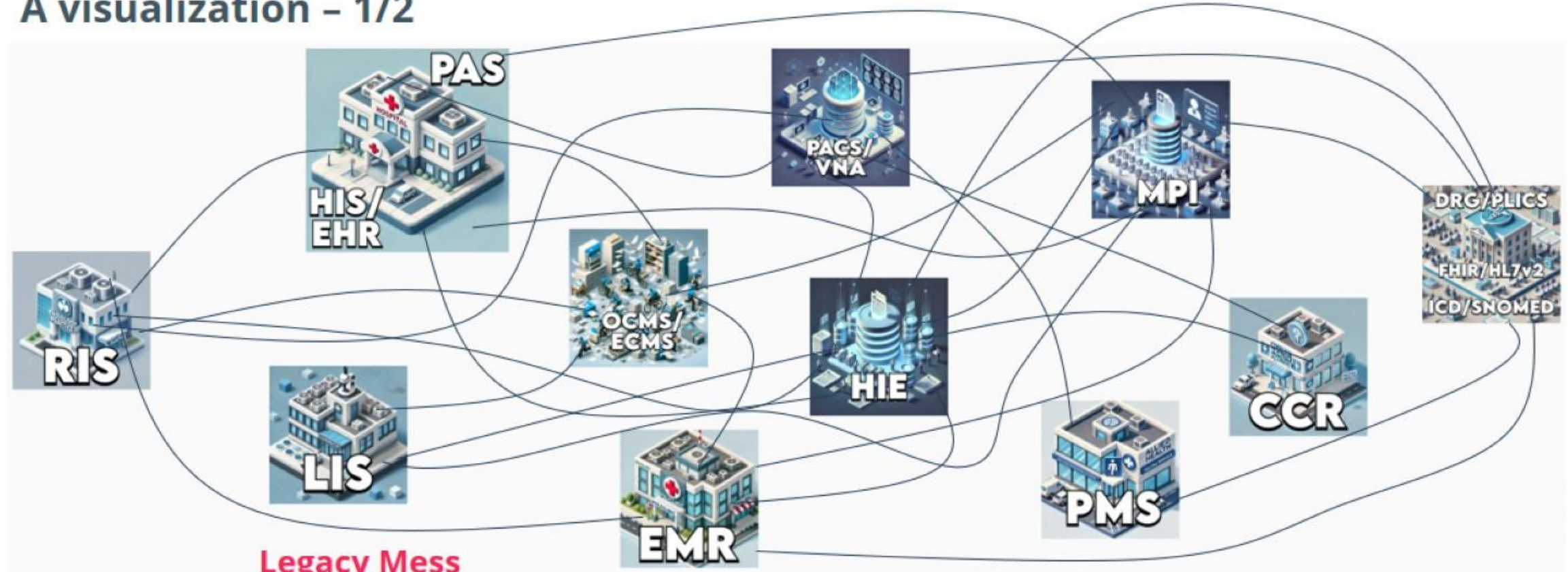
We've done it before

- Our company is the only ones to deliver an integrated healthcare backbone with patient application, at a **whole-country scale**, with over a decade in production
- We can go live **fast – deployments take months, not years**
- Watch a visualized rollout with real data here <https://serbia-rollout.sorsix.com/>



The 'Old Way' – current market practice

A visualization – 1/2



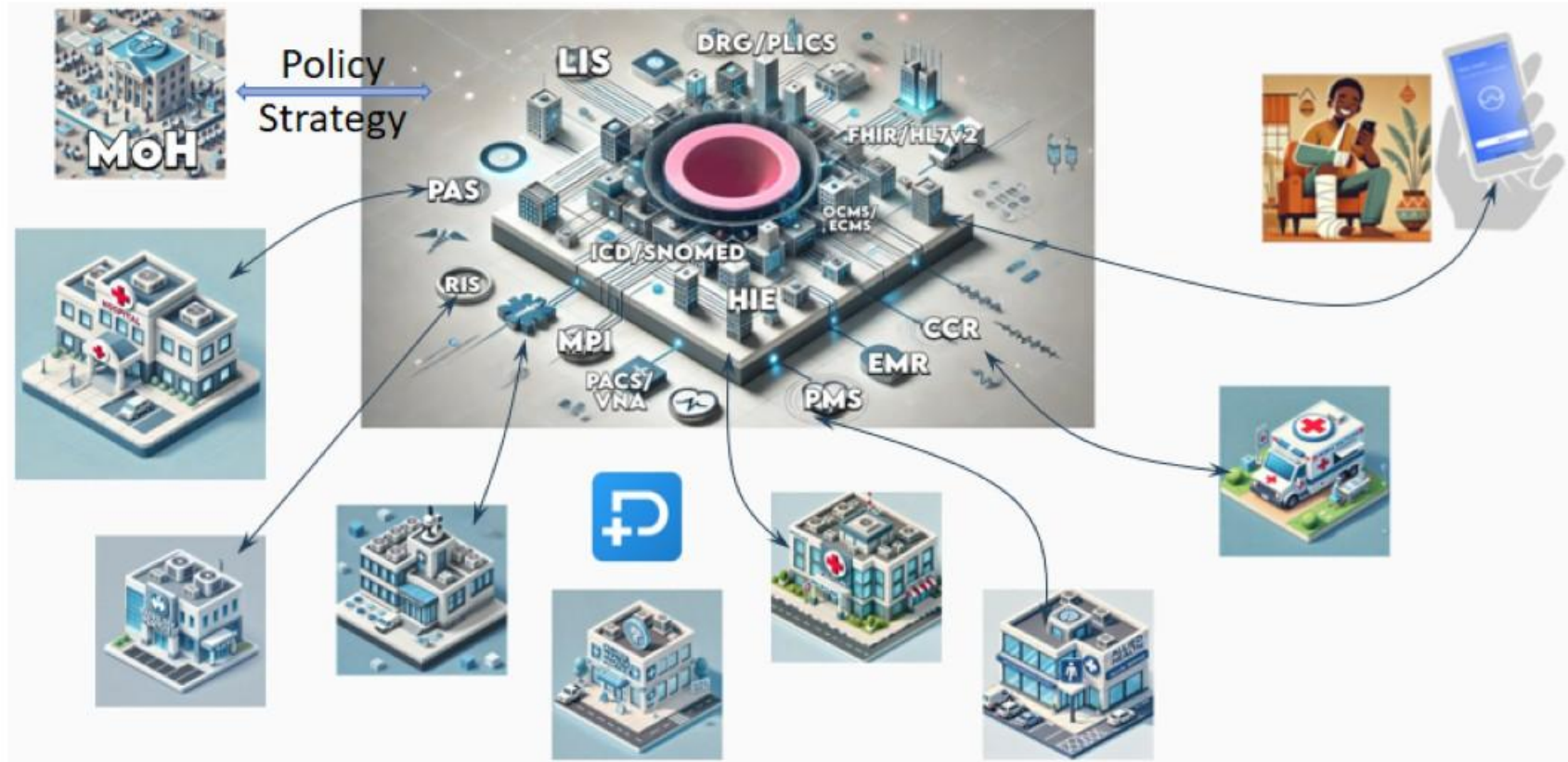
Legacy Mess

- A combination of legacy concepts leads to a complex 'acronym word salad'
- Each system **has to integrate with each other system** – the number of integrations and failure points **increases without bound** as the system grows
- Attempts to create central repositories just add more integration need



'National Health Operating System' - NHOS

A visualization – 2/2



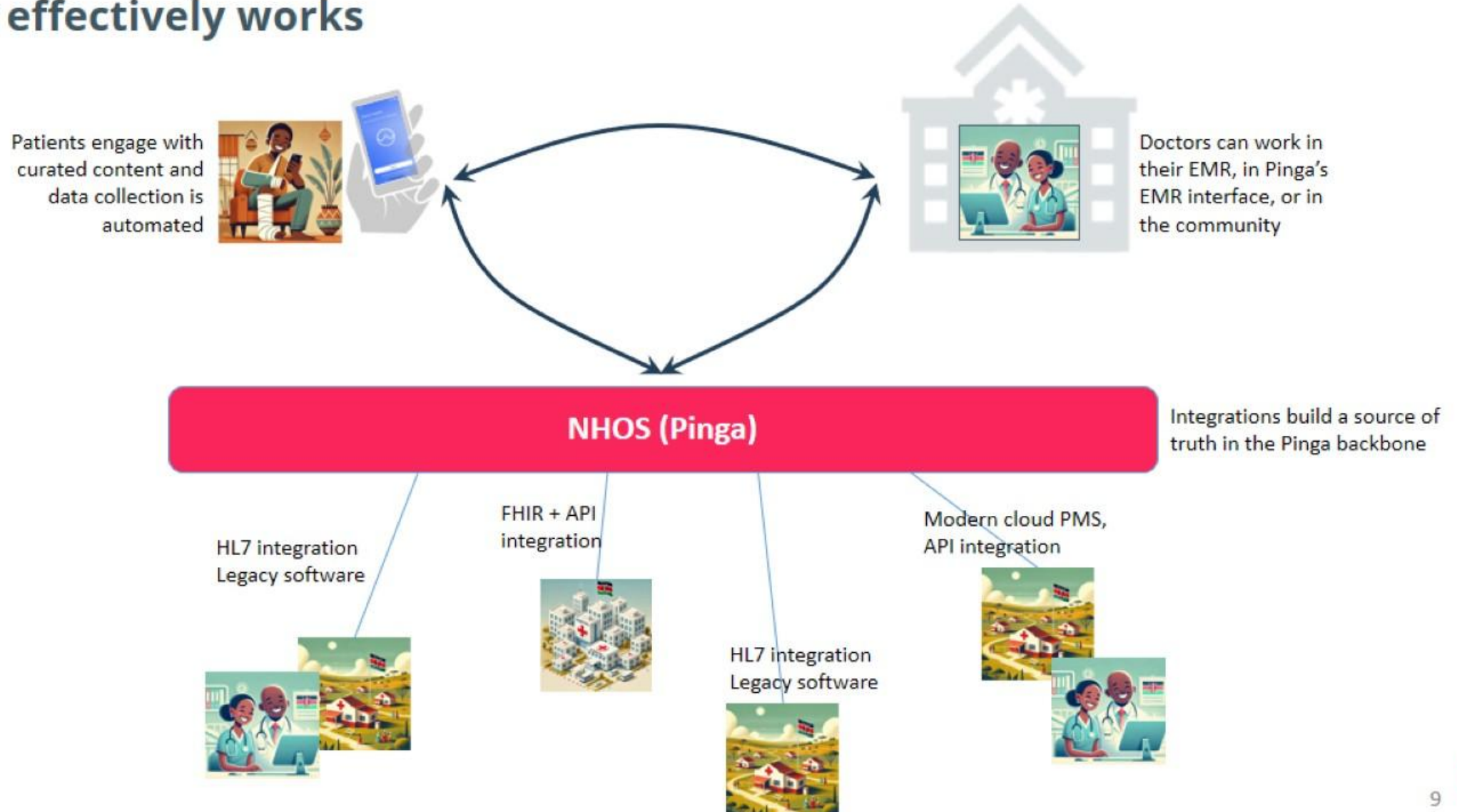
Pinga and the Future

- Every functionality in the 'acronym salad' is still provided by the NHOS
- All facilities **integrate with a single fundamental backbone** – the NHOS
- All facilities **without integration can use the system's native interfaces**



All nations should have an NHOS backbone

How it effectively works



Short demonstration

National deployments

North Macedonia

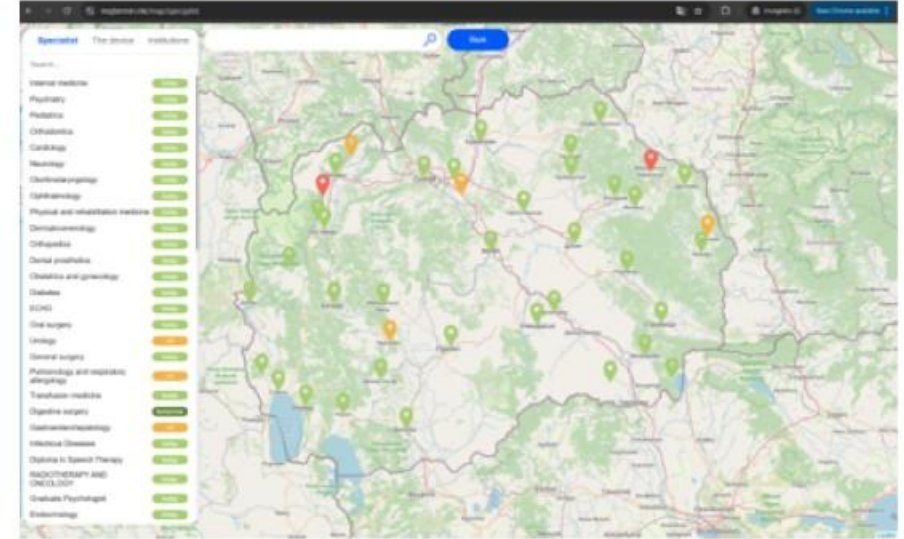
- Integrated diaries across the country
- All referrals are electronic, doctors/nurses/receptionists all schedule online
- National system and live stats

Serbia

- Integrated diaries across the country
- All referrals are electronic, doctors/nurses/receptionists all schedule online
- National system and live stats

NALHN

- Pathway Builder-driven e-referrals, forms, and patient interaction
- Demonstration of self-management features



The NHOS EHR elements

A full record

- National EHR
 - Referrals for all 2^o and 3^o care
 - RIS/LIS for ministry hospitals
 - Specialist software for ministry doctors
 - Prescriptions
 - Daily medical reports
 - Sick leave
- Administration
 - National registers
 - Cancer
 - Orthopedic appliances
 - Transplantation
 - Vaccination and immunization
 - Equipment
 - Waiting lists

Integrated management

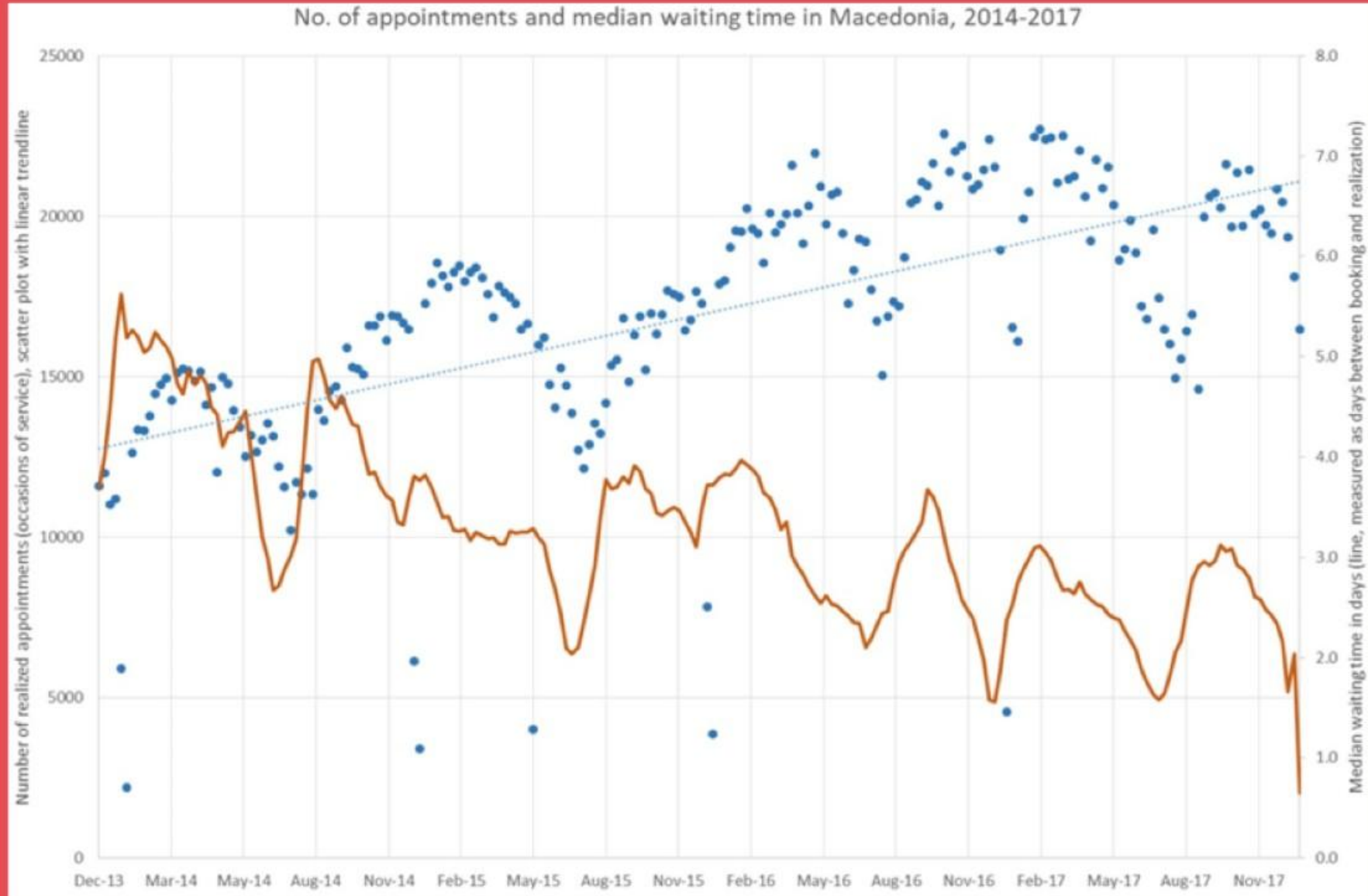
- Basic EMR/PMS for public doctors and institutions
- Basic HIS for public institutions
- Basic pathways for referrals and treatment plans
- State formulary
- Notification engine
- Training
- Credentialling
- Performance-based pay system

Specialised modules

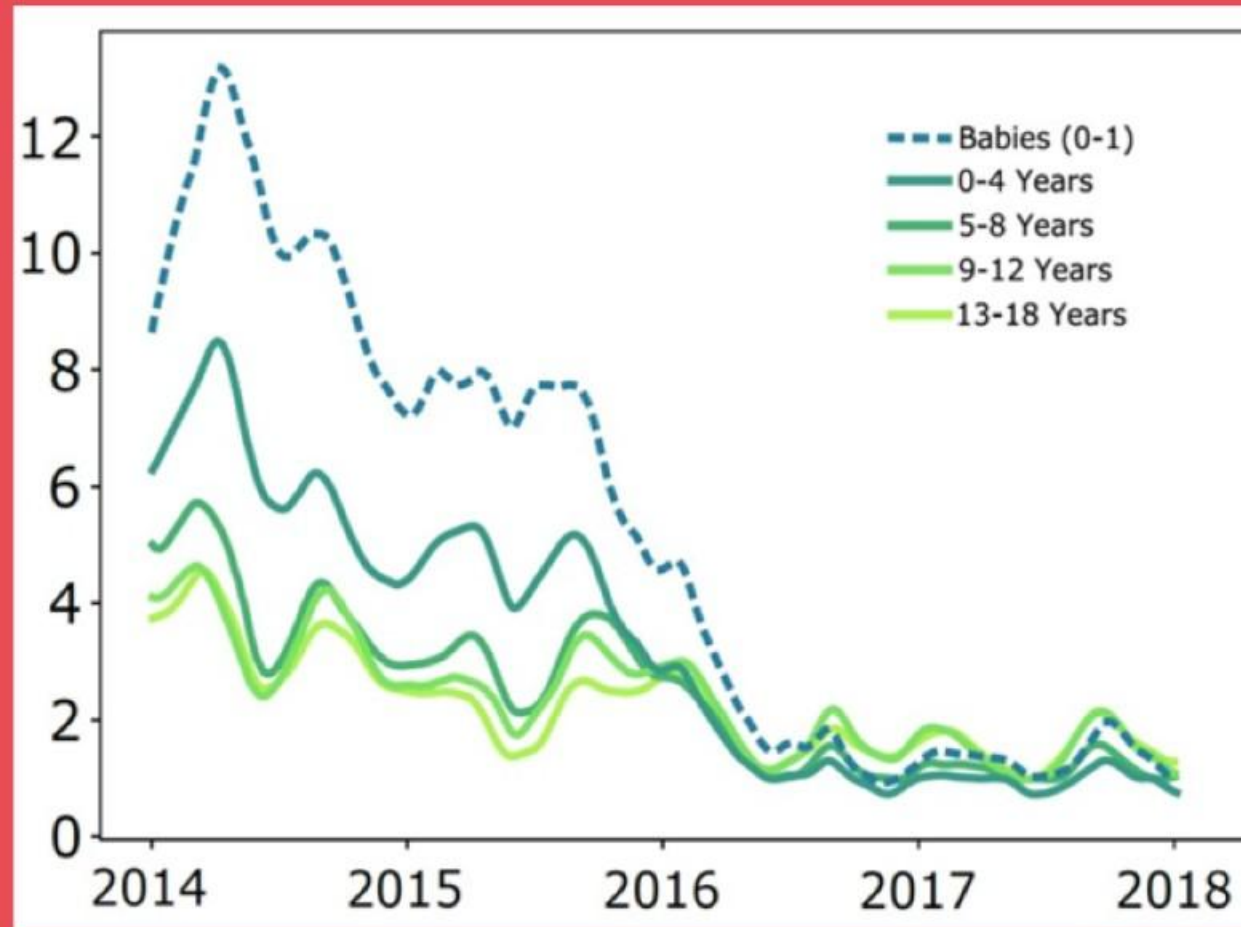
- Dedicated diabetes and endocrinology module
- Surgical waitlist and planning tool
- Transplantation waiting lists
- Immunization register and planning
- Pregnancy management/newborn registration



Pinga – impact



Pinga – impact



Wait time for pediatric oncology, Macedonia 2014-2018



Thank you