



WORLD BANK GROUP

Health, Nutrition & Population

Support to develop a health system strategy for priority
disease areas in Latvia

Hospital Infrastructure, Equipment and Human Resource Mapping

Hospital Master Planning Goals

- Set planning targets to adjust needs in hospital infrastructure, equipment and staff against 'evidence-based' targets.
- Compare existing availability of hospital capacity with need and invest or disinvest accordingly.
- Identify enabling factors in the health system that need to change to facilitate the improvements in hospital capacity utilization → lead to improvements in performance.
- Introduce a phased implementation strategy allowing for further strengthening of the network and impact of demographic changes.

Outline

1. Master planning
2. Investment needs
3. Equipment planning
4. Human resources
5. Roadmap to implementation

Key Principles for Master Plan Development

- Timely access to hospital services for all;
- Safe, quality hospital services delivered according to international standards of care;
- Equitable distribution of resources between primary care and hospital services;
- Development of a sustainable financing framework that adjusts the services delivered to the resources available; and
- Creation of hospital centres of excellence delivering the highest level of care to the entire population

Moving from Bed/physician Centric to People Centred Model

Geographic Access
-Travel Time

Population Needs
-Demographic/Morbidity
& Mortality

Volume Standards
-Evidence based

Effective Care
-New Technology
-Latvia & Int'l standards
Efficiency

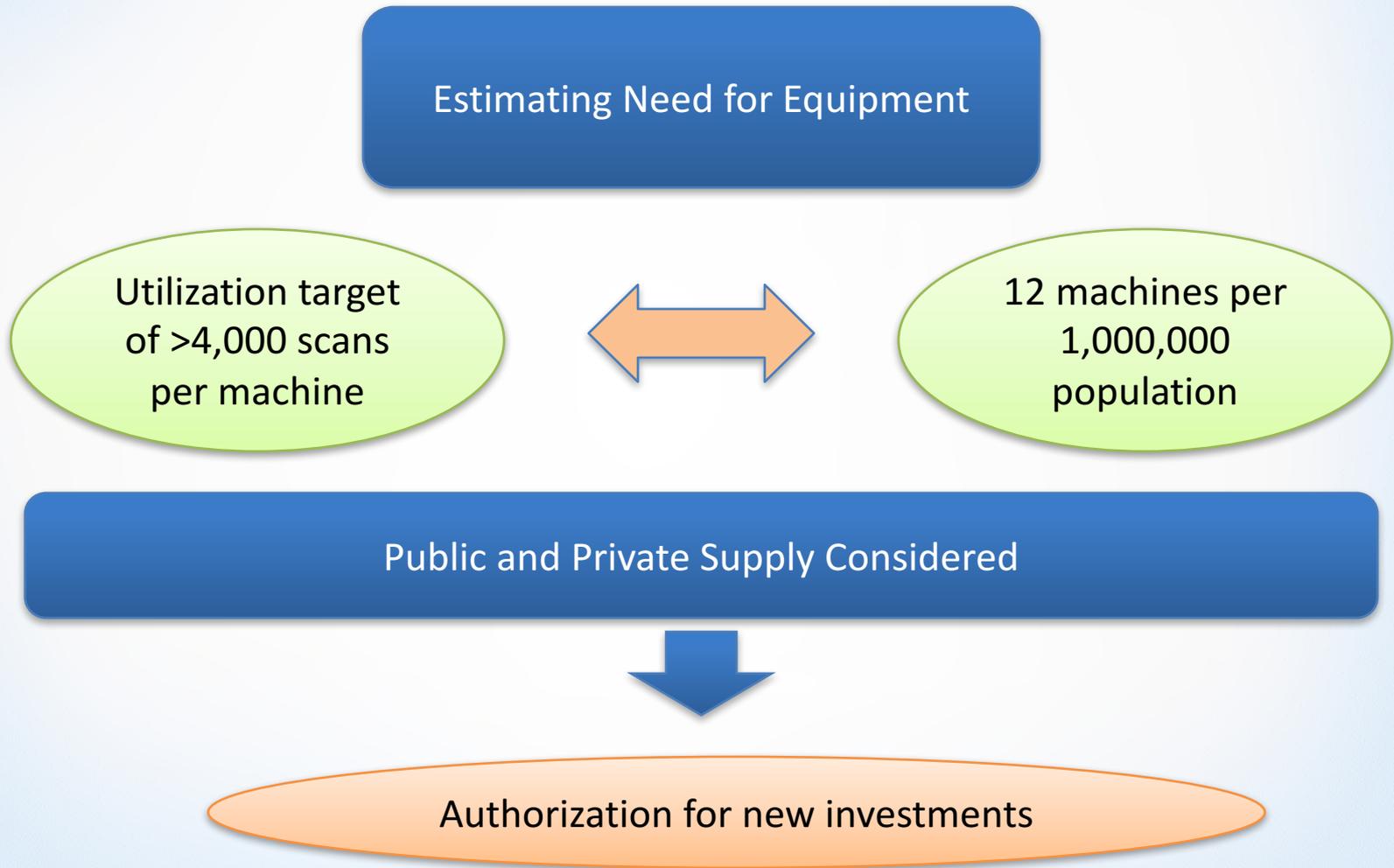


Master Plan

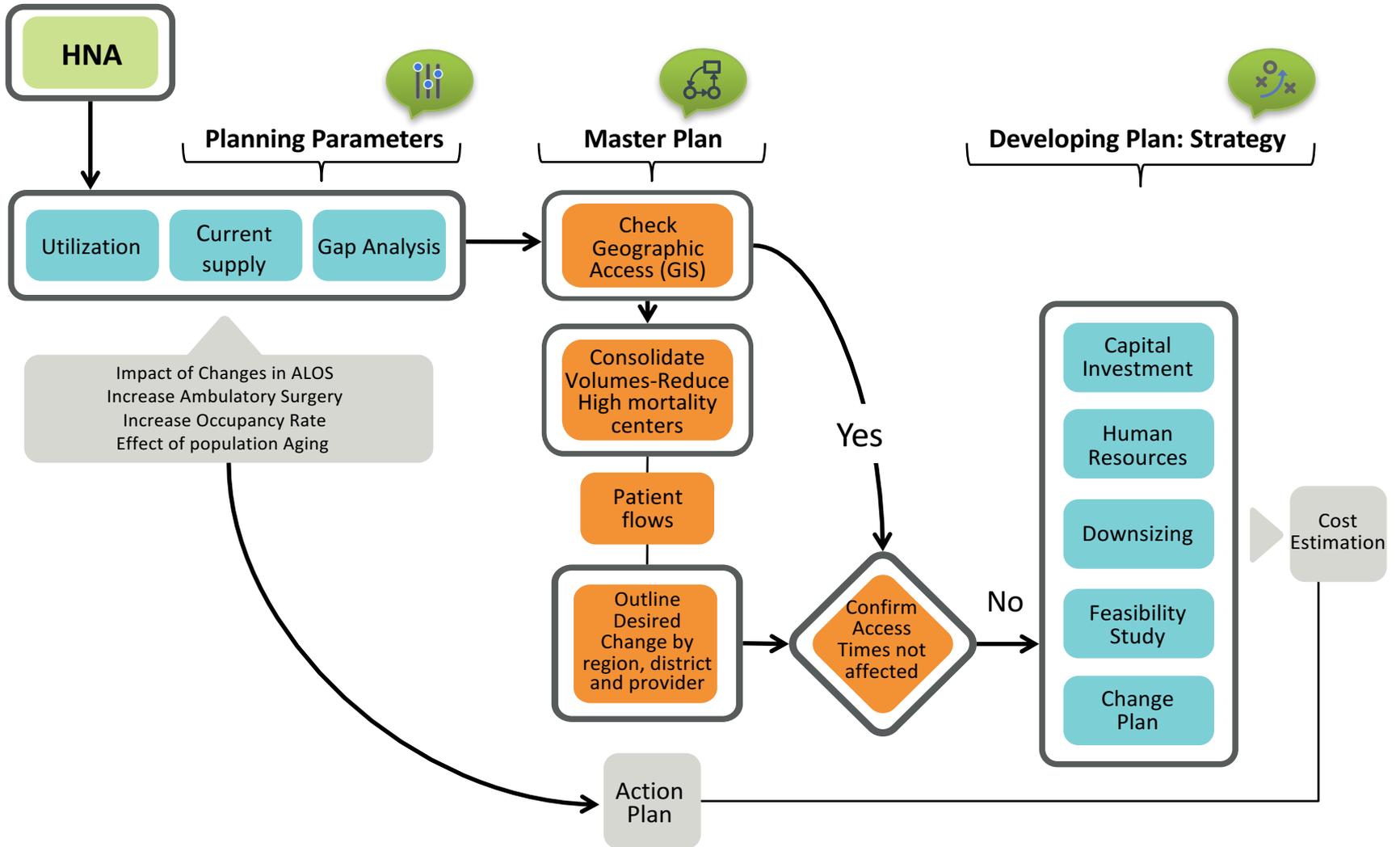
Future Infrastructure

**Equipment & Technology Requirements,
Delivery Strategy & Human Resources**

The Mechanics of Estimating Supply



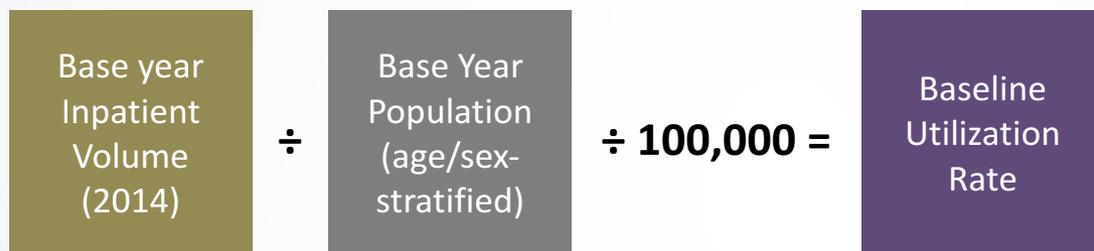
Integrated Approach of the Health Sector Reconfiguration Assignment



Sanigest Inpatient Volume Projection Methodology

Inpatient volumes are projected based on market size estimates (based on use rates and population) and by applying market share growth assumptions.

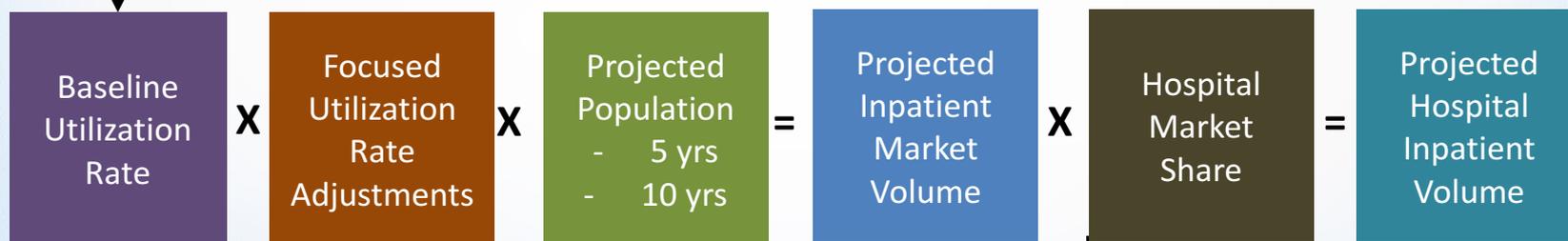
Project IP Discharge Volume: Market & Hospital



Key Assumption & Variables

- Population/demographics
- Use rates – Science and Technology
- Medical staff mix changes
- Hospital market share (by service line)
- In/out migration (by services line)
- ALOS: Science and Technology / Performance Improvement

Project IP Discharge Volume: Market & Hospital

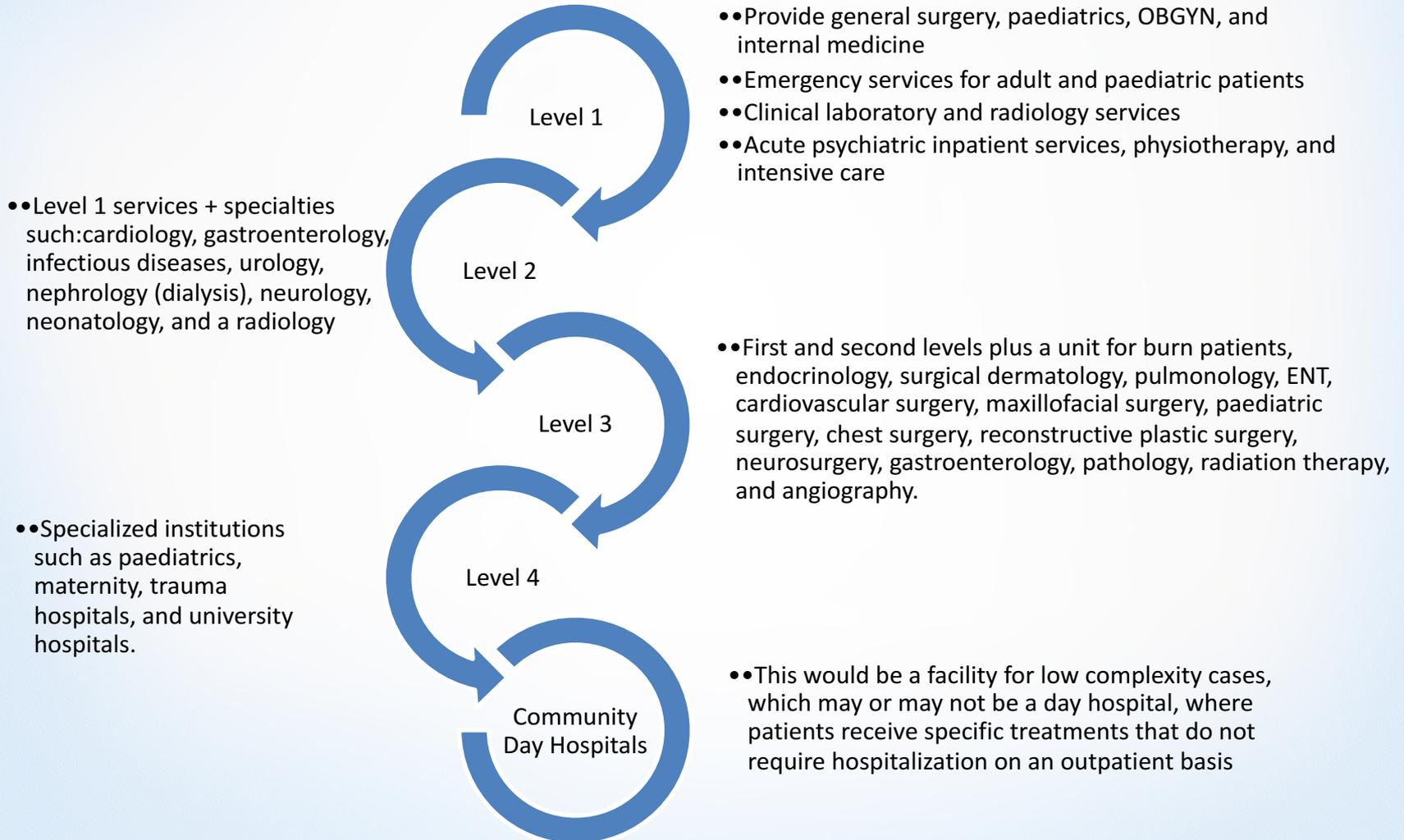


Incorporate changes in utilization due to ambulatory surgery, shift to less acute sites de-institutionalization

LTC

Sensibility Analyses/Strategy Scenarios:
Ability to model multiple future outcomes for planning purposes

Defining levels of care



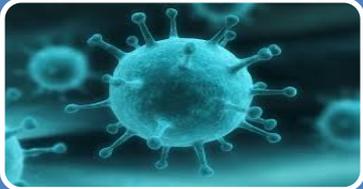
Modelling considerations for OTHER SERVICES

Cardiovascular



- Demand is expected to increase 20%
- Master Plan recommends that five catheterization labs are set up with two in Riga and three in regional hospitals
- Assumptions maintain that a minimum of 500 angioplasty procedures
- By optimising the inpatient cardiology care, the bed occupancy rate should be 80-85%.

Oncology



- Oncology patients has increased by roughly 40 percent
- Chemotherapy and radiotherapy can be delivered without extended hospitalization
- Day care areas should be created for an increasing volume of chemotherapy patients
- Proposed planning guidelines advocate that not less than 30 beds must be in the oncological departments with a target bed occupancy rate of 85%.

Traumatology and Orthopaedics



- Demand will increase due to the lack of trauma prevention
- In the period of the next 10 years, it is possible to decrease the average length of stay in a hospital up to 7-8 days
- The size of the traumatology and orthopaedic department in hospitals providing secondary and tertiary care could be 40-50 beds
- For the next 5-10 years the bed occupancy rate recommended is 85-90%

Modelling considerations for OTHER SERVICES

Surgery



- Is one of the main sources of potential savings in bed days
- The present master plan targets an increase in volume for surgery and a decrease in the length of stay
- Assumptions for the future state analysis are based on 85 percent occupancy, an increase to 40 percent of all surgeries on a day basis, and ward sizes between 30 and 50 beds depending on the facility level.

Neurology



- Is expected to require further strengthening
- Number of the beds will decrease to 515 per 100,000 population
- Number of the practicing neurologists would decrease to a standard of 11,000 people per neurologist
- The average length of stay for a neurological patient in the future could decrease to 11 days, with 30 beds the minimal size of the neurological department.

General Medicine



- Analysis of ambulatory care sensitive conditions (ACSC) shows that an estimated 14 percent of all hospitalizations are avoidable with the improvement of primary care and stricter admission criteria
- Hospitalization rate for general medicine cases should decrease by 10 percent over the next five years
- Average length of stay is set at 5 days and the occupancy rate target for general medicine is 85 percent.

Master plan recommendation for specialized services

Highly Specialized Care
(increase Centralization)



Master Plan Recommendation

- Consolidate cardio-thoracic surgery into 2 sites, Pauls Stradins and East Riga Clinical
 - Consolidate into larger facilities those hospitals with fewer than 500 births
 - Increase consolidation of long term psychiatric beds
 - Increase consolidation of trauma and orthopaedic beds
-
- Place Angiography units in Liepaja Regional Hospital, Daugavpils Regional Hospital, Eastern Clinical University Hospital of Riga and Jekabpils Regional Hospital
 - LINAC in Liepaja Regional Hospital, Daugavpils Regional Hospital, Eastern Clinical University Hospital of Riga, Jekabpils Regional Hospital and Jelgava City Hospital.
 - Expand access to hemodialysis services
 - Expanded access to day care beds and long term beds through the conversion of smaller hospitals into non-acute facilities.
 - Increasing community based mental health and substance abuse brings these services into smaller population units.

Make Services
Accessible
(decentralization)



Key Motivating Conditions



Due to this misallocation of resources, many patients need to travel long distances to access larger and better equipped centers outside their own regions.



Establish standards based on assumptions of productivity and quality for medical providers: volume + quality

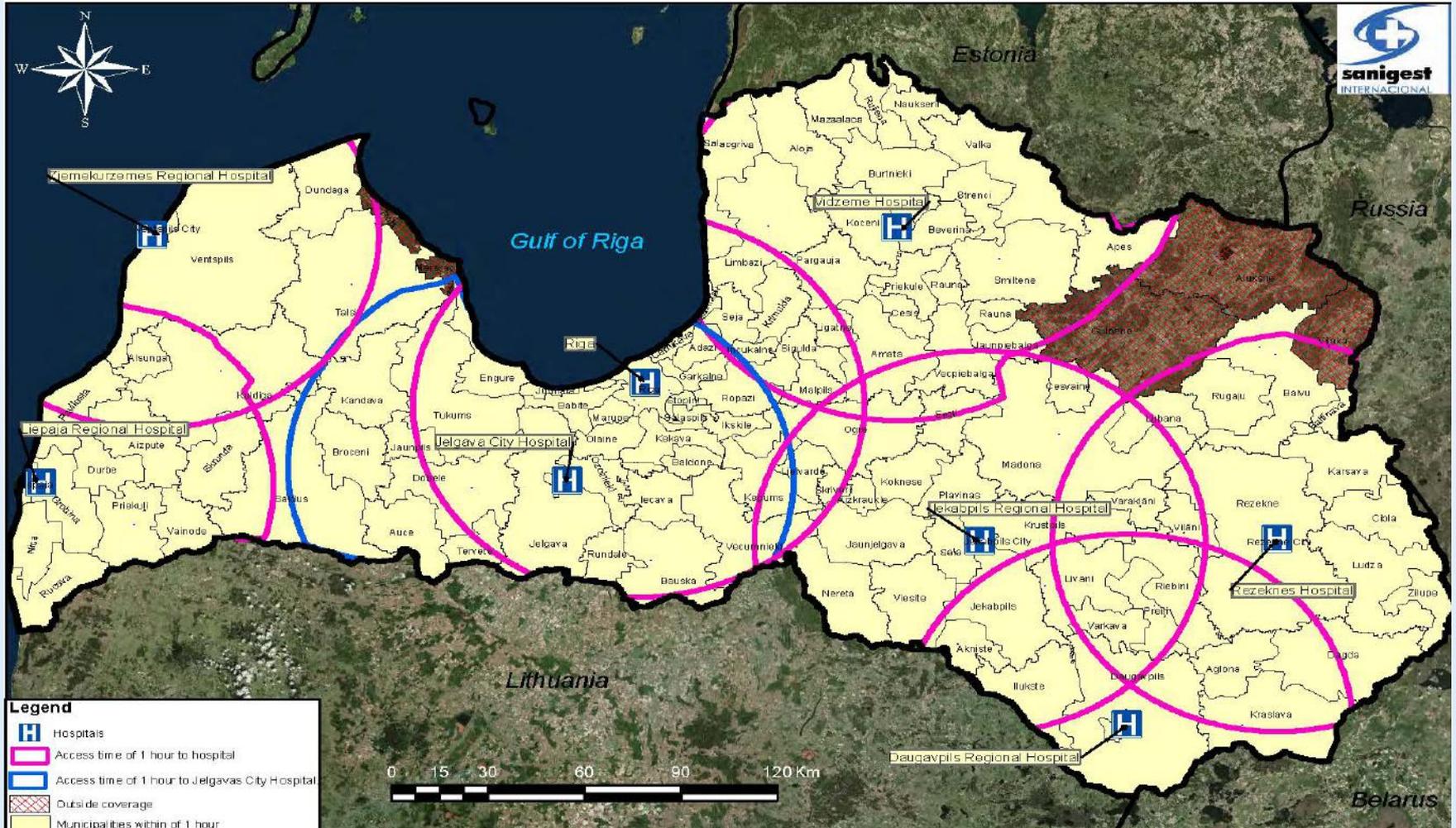


Economy of scale in facilities and more appropriate distribution of services: many of the facilities with fewer than 50 beds

Setting access time standards by profile

| Level of Care | Access Standard |
|--|-------------------|
| Community Day Hospital | < 30 minutes |
| Level 1 Hospital (Locality or Municipality) | < 30 minutes |
| Level 2 Hospital (Regional- Municipality) | less than 1 hour |
| Level 3 Hospital (Regional) | 90 minutes |
| Level 4 Hospital (National Centre of Excellence) | less than 3 hours |

Mapping Access Times to Improve Equity



Future facility network configuration

- Driven to support the National Development Plan

Scenario 1



- Optimal allocation based on best practice planning guidelines

Scenario 2



Scenario 1: Hospitals by level

Level 4

- University Children's Hospital
- Riga Maternity Hospital
- Traumatology and Orthopaedics Hospital
- Riga East Clinical University Hospital
- Pauls Stradiņš Clinical University Hospital

Level 3

- Daugavpils Regional Hospital
- Liepāja Regional Hospital
- Jēkabpils Regional Central Hospital
- Rēzeknes Hospital
- Vidzeme Hospital (Valmiera and Valka)

Level 2

- Madona Hospital
- Balvi and Gulbene Hospital Association
- Jelgavas City Hospital
- Hospital Jurmala
- Ziemeļkurzemes Regional Hospital/Ventspils - Northern Regional Hospital (Tilsa)

Level 1

- Cēsu Clinic
- Ogre District Hospital
- Dobele Hospital
- Riga 2nd Hospital
- Tukums Hospital
- Aizkraukle Hospital
- Alūksne Hospital
- Bauska hospital
- Krāslava Hospital
- Kuldīga Hospital
- Līvāni Hospital
- Ludza Medical Center
- Preiļi Hospital
- Saldus Medical Center
- Sīgūda Hospital
- Smiltene Red Cross Hospital
- Limbaži Hospital
- Priekule Hospital

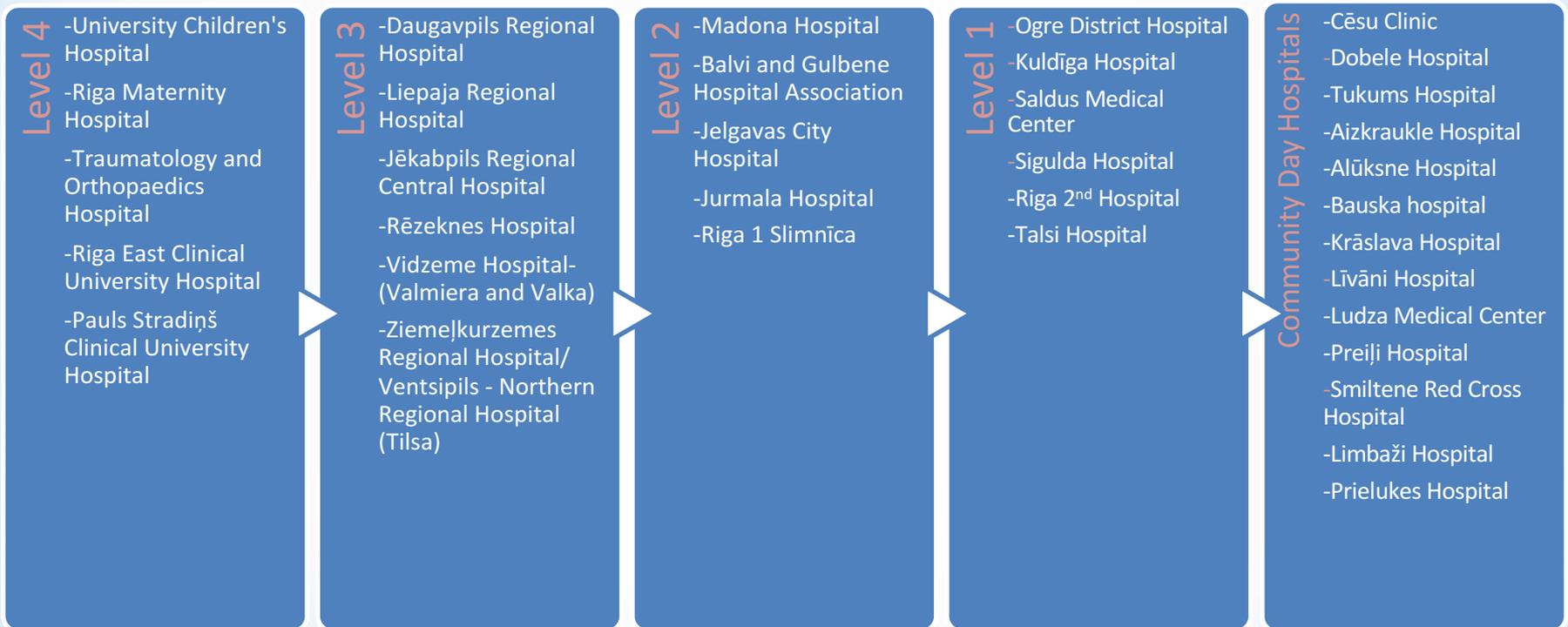
Bed needs under scenario 1 (2025)

Additional **822** beds in the network that are not strictly necessary.

| Health Functions | Current Beds | Bed need | Surplus/Deficit |
|---------------------------------------|----------------------|----------|-----------------|
| | 2014 (Contracted) | 2025 | 2025 |
| Medical Specialties | 2,258 | 2,411 | -153 |
| Paediatric | 853 | 1,080 | -227 |
| Obstetrics and Gynaecology | 514 | 440 | 74 |
| Surgical Specialties | 2,523 | 1,815 | 708 |
| Pathology and Radiology | 499 | | |
| Mental health and Disabilities | | 79 | -79 |
| Long Term care | 3,406 | 2,650 | 756 |
| Total | 10,053 | 8,475 | 1,578 |
| | | | |
| Acute Care Only | 6,647 | 5,825 | 822 |

Scenario 2: Hospitals by level

Additional strengthening of the Center of Excellence concept and development Community Day Hospital as base component network

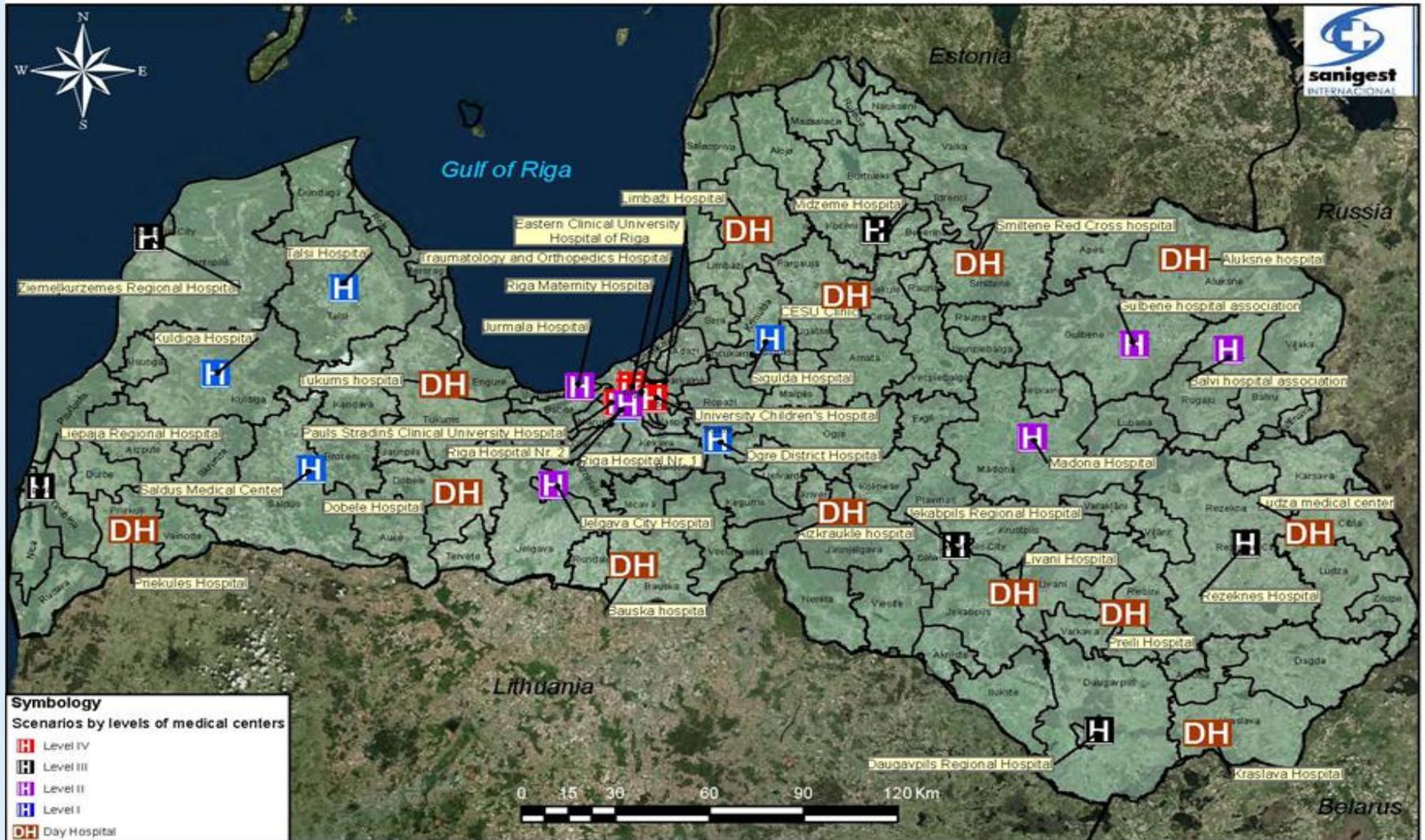


Bed needs under scenario 2 (2025)

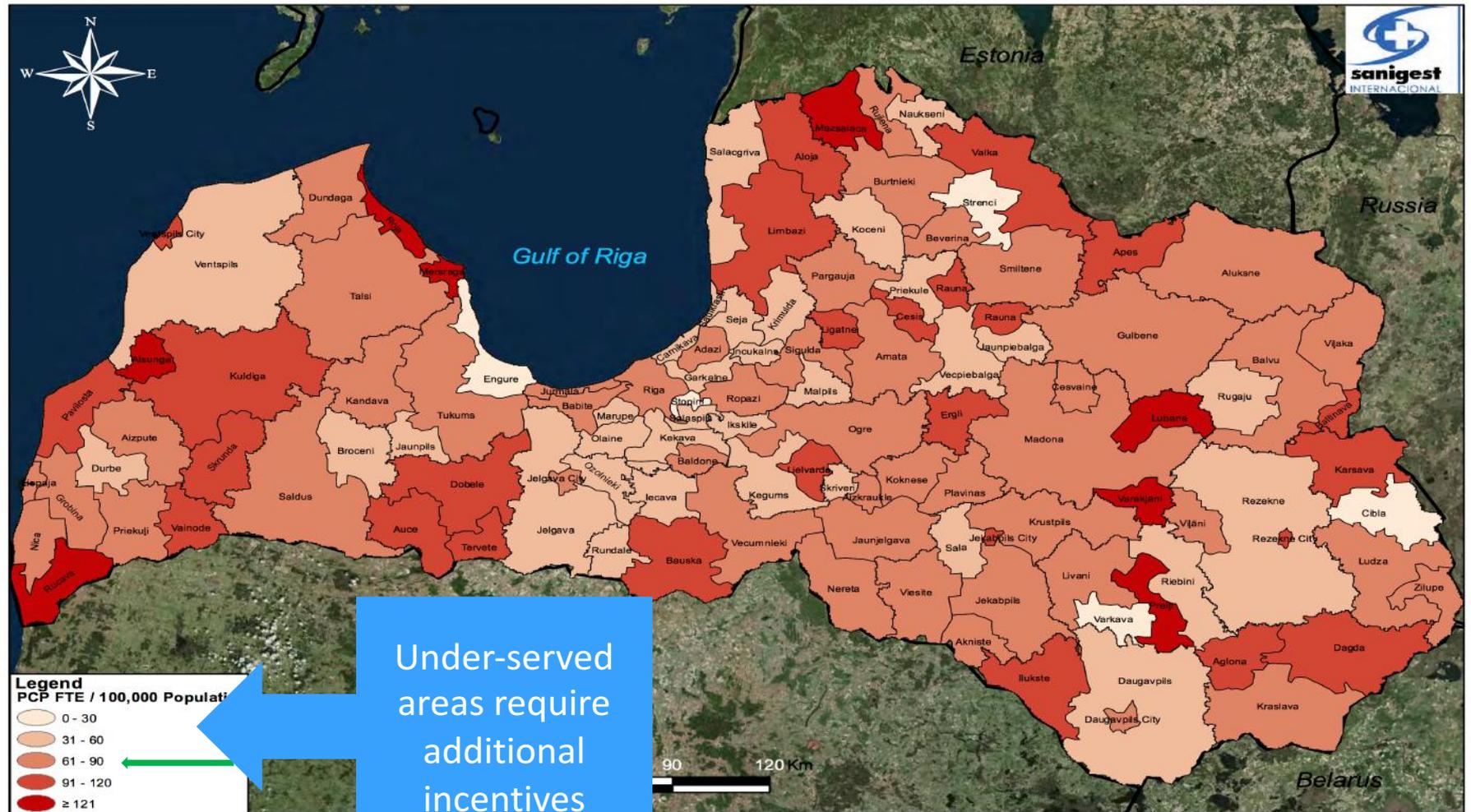
| Specialties | Current Beds | Bed need | Surplus/Deficit |
|--------------------------------|-------------------|----------|-----------------|
| | 2014 (Contracted) | 2025 | 2025 |
| Medical Specialties | 2,258 | 2,169 | 89 |
| Paediatric | 853 | 848 | 5 |
| Obstetrics and Gynaecology | 514 | 473 | 41 |
| Surgical Specialties | 2,523 | 1,561 | 9562 |
| Pathology and Radiology | 499 | | |
| Mental health and Disabilities | | 79 | -79 |
| Long Term care | 3,406 | 2,650 | 756 |
| Total | 10,053 | 7,780 | 2,273 |
| Acute Care Only | 6,647 | 5,130 | 1,517 |

Target: 5,000 acute beds and 3,000 long term beds for 2025

Facility distribution under scenario 2



Primary Care Network Needs Strengthening



Defining the PHC Structure

Outpatient
Specialist Care

Ambulatory
Surgery Centers

Urban PHC Centers

Group GP Practices

Individual GP Led Teams

Mobile and Outreach Services

Primary Care Network Organization

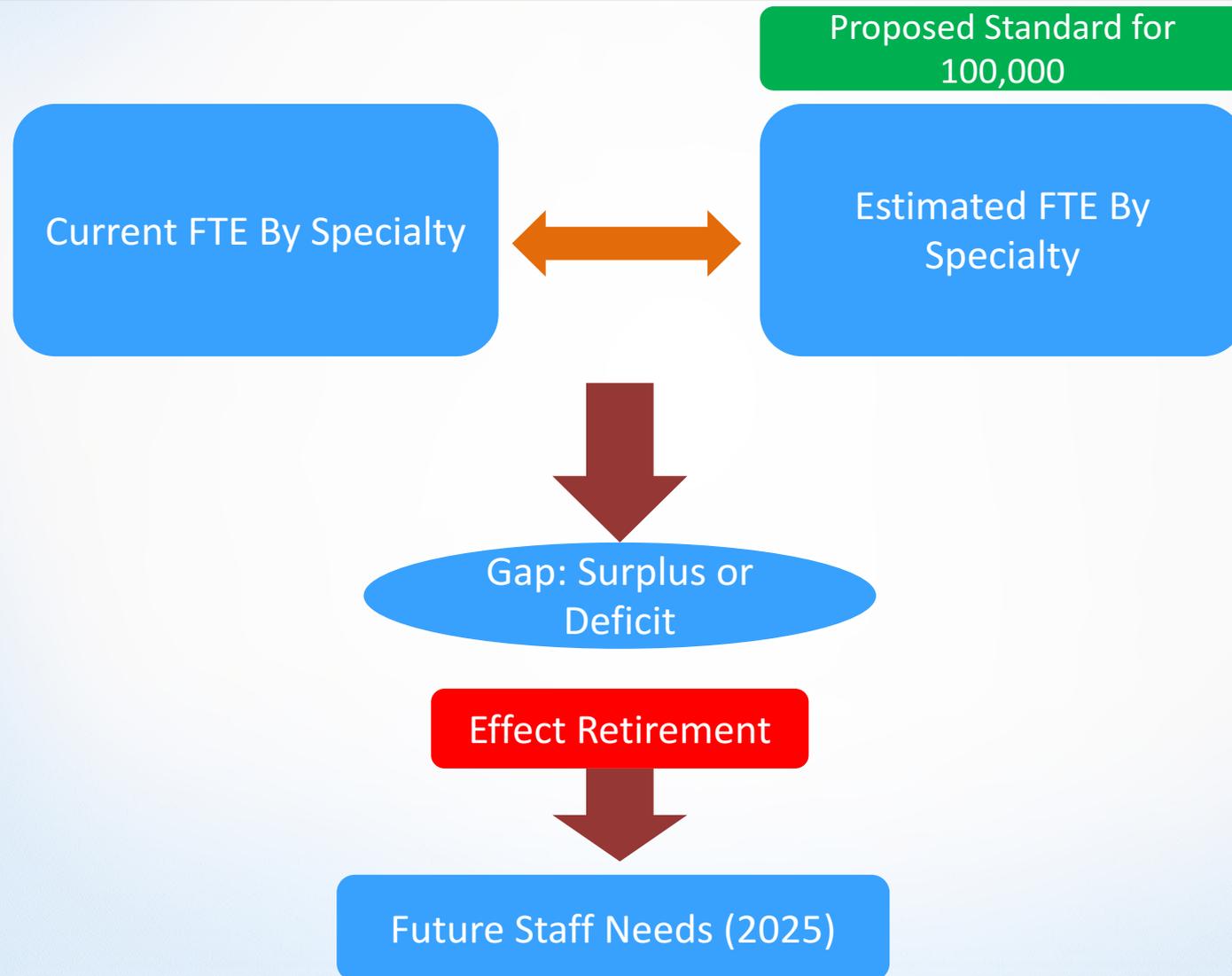
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Human resources

Human Resource Mapping



From Need to Supply...

| Calculations | Surgery |
|---------------------------|---------|
| Population base | 100,000 |
| Surgeries per year | 5,000 |
| Work days per year | 230 |
| Surgeries per day (low) | 1 |
| Surgeries per day (high) | 2 |
| Surgeries per year (low) | 230 |
| Surgeries per year (high) | 460 |
| Surgeons (current) | 69 |
| Surgeons required (low) | 21.74 |
| Surgeons required (high) | 10.87 |

+ Other activity

Standard =
30 surgeons
per 100k

HR Planning:

- Assumes standard productivity
- Seeks equitable distribution
- Accounts for aging workforce
- Allows for adjustment in incentives
- Adjust future inflow medical education

Human Resource Mapping

application of standards yields a national level surplus for medical specialties, with some exceptions in areas like Accident & Emergency, Nuclear Medicine, and Occupational Medicine.

| Medical Staff per specialty | FTE | Proposed FTE | Proposed FTE | Proposed Deficit-Surplus | |
|---------------------------------------|---------------|---------------|---------------|--------------------------|---------------|
| | Current | 2020 | 2025 | 2020 | 2025 |
| Medical Specialties | 4025.0 | 2973.7 | 2866.1 | 1051.3 | 1158.9 |
| Accident and Emergency | 138.1 | 190.9 | 184.0 | -52.7 | -45.8 |
| Critical Care (including Anaesthesia) | 449.7 | 292.0 | 281.5 | 157.7 | 168.2 |
| Cardiology | 244.7 | 84.0 | 80.9 | 160.7 | 163.8 |
| Dermatology | 197.8 | 36.3 | 35.0 | 161.5 | 162.8 |
| Endocrinology/ Diabetes Mellitus | 83.7 | 28.6 | 27.6 | 55.0 | 56.1 |
| Gastroenterology | 95.5 | 49.6 | 47.8 | 45.8 | 47.6 |
| General Medicine (GP) | 1539.0 | 1145.2 | 1103.8 | 393.8 | 435.3 |
| Geriatric Medicine | | 22.9 | 22.1 | -22.9 | -22.1 |
| Infectious Diseases | 54.8 | 57.3 | 55.2 | -2.4 | -0.3 |
| Internist | 486.4 | 477.2 | 459.9 | 9.2 | 26.5 |
| Medical Oncology | 82.2 | 38.2 | 36.8 | 44.1 | 45.4 |
| Neurology | 322.3 | 133.6 | 128.8 | 188.7 | 193.5 |
| Nuclear Medicine | | 19.1 | 18.4 | -19.1 | -18.4 |
| Occupational Medicine | 148.5 | 248.1 | 239.1 | -99.7 | -90.7 |
| Pneumonology | 115.5 | 114.5 | 110.4 | 1.0 | 5.1 |
| Renal Medicine | 44.0 | 21.0 | 20.2 | 23.0 | 23.8 |
| Rheumatology | 22.8 | 15.3 | 14.7 | 7.5 | 8.0 |

Productivity Matters...

| Physician Classification | Number Visits | Visits per specialist | Per Day |
|--------------------------------|---------------|-----------------------|---------|
| Family Doctor | 4,516,033 | 3,265 | 14.20 |
| OBGYN | 557,078 | 1,232 | 5.36 |
| Ophthalmologist | 371,456 | 1,587 | 6.90 |
| Surgeon | 249,867 | 796 | 3.46 |
| Psychiatrist | 218,007 | 793 | 3.45 |
| Trauma/Ortho | 210,782 | 1,158 | 5.04 |
| Otolaryngologist | 201,536 | 1,260 | 5.48 |
| Pediatrician | 252,880 | 803 | 3.49 |
| Neurologist | 211,652 | 814 | 3.54 |
| Endocrinologist | 153,333 | 1,870 | 8.13 |
| Dermatologist | 134,566 | 852 | 3.70 |
| Cardiologist | 176,563 | 761 | 3.31 |
| Pediatric Surgeon | 80,126 | 1,571 | 6.83 |
| Rehabilitation | 3,655 | 203 | 0.88 |
| Oncologist | 64,461 | 750 | 3.26 |
| Nephrologist | 35,767 | 852 | 3.70 |
| Cardio thoracic /heart surgeon | 886 | 63 | 0.28 |
| Neurosurgeon | 9,849 | 201 | 0.87 |
| pediatric cardiologist | 9,081 | 1,009 | 4.39 |
| urologist | 6,272 | 98 | 0.43 |

PERCENTAGE OF SPECIALIST OVER RETIREMENT AGE

The needs for each specialty were previously identified based on project service levels and population projections and these values are now compared to the estimated workforce after retirement using the analysis of the share of each specialty that are facing retirement in 2025

| | 2016 FTE | Mean Age 2016 | % ≥62 in 2020 | % ≥65 in 2025 |
|--------------------------|----------|---------------|---------------|---------------|
| Obstetrics & Gynaecology | 572.0 | 53.1 | 35.4% | 44.9% |
| Medical Oncology | 79.7 | 55.9 | 36.0% | 56.6% |
| Cardiology | 237.2 | 51.6 | 30.9% | 41.9% |
| Cardiothoracic Surgery | 13.7 | 51.0 | 20.1% | 32.0% |
| Mental Health: | | | | |
| Child/Adolescent Psych | 19.8 | 52.5 | 42.1% | 49.4% |
| Forensic Psychiatry | 13.6 | 61.5 | 59.5% | 68.7% |
| General Psychiatry | 283.3 | 54.8 | 44.3% | 53.0% |
| Psychotherapy | 45.7 | 50.9 | 12.0% | 23.0% |

CURRENT STAFF LEVEL and NEED: ESTIMATED 2025

Re-estimation of 2025 availability AFTER RETIREMENT shows the potential challenge to addressing the aging workforce. Future production should fill this gap.



| | 2016 FTE | 2025 Need | 2025 Estimated | 2025 Gap |
|--------------------------|----------|-----------|----------------|----------|
| Obstetrics & Gynaecology | 572.0 | 367.9 | 315.2 | (53) |
| Medical Oncology | 79.7 | 36.8 | 34.6 | (2) |
| Cardiology | 237.2 | 80.9 | 137.7 | 57 |
| Cardiothoracic Surgery | 13.7 | 18.4 | 9.3 | (9) |
| Mental Health: | | 0.0 | | - |
| Child/Adolescent Psych | 19.8 | 32.8 | 10.0 | (23) |
| Forensic Psychiatry | 13.6 | 28.9 | 4.3 | (25) |
| General Psychiatry | 283.3 | 210.1 | 133.1 | (77) |
| Psychotherapy | 45.7 | 40.5 | 35.2 | (5) |

+ Future
Production

+ Net

CURRENT STAFF LEVEL and NEED: ESTIMATED 2025

With retirement at the regional level for 2025...

| Specialist Category | Riga | Periga | Vidzeme | Kurzeme | Zemgale | Latgale |
|-----------------------|------|--------|---------|---------|---------|---------|
| Obstetrics & Gynae | 15 | (25) | (6) | (8) | (15) | (13) |
| Medical Oncology | 10 | (4) | (1) | (2) | (2) | (1) |
| Cardiology | 62 | (5) | (3) | (1) | 1 | 2 |
| Cardiothoracic Surg | 1 | (3) | (1) | (2) | (2) | (2) |
| Mental Health: | | | | | | |
| Child/Adol Psych | (11) | (3) | (2) | (3) | (2) | (2) |
| Forensic Psychiatry | (13) | (5) | (2) | (3) | (1) | (0) |
| General Psychiatry | (26) | (26) | (7) | (10) | (1) | (7) |
| Psychotherapy | 8 | (6) | (2) | (1) | (1) | (4) |

Optimal inpatient nurse staffing

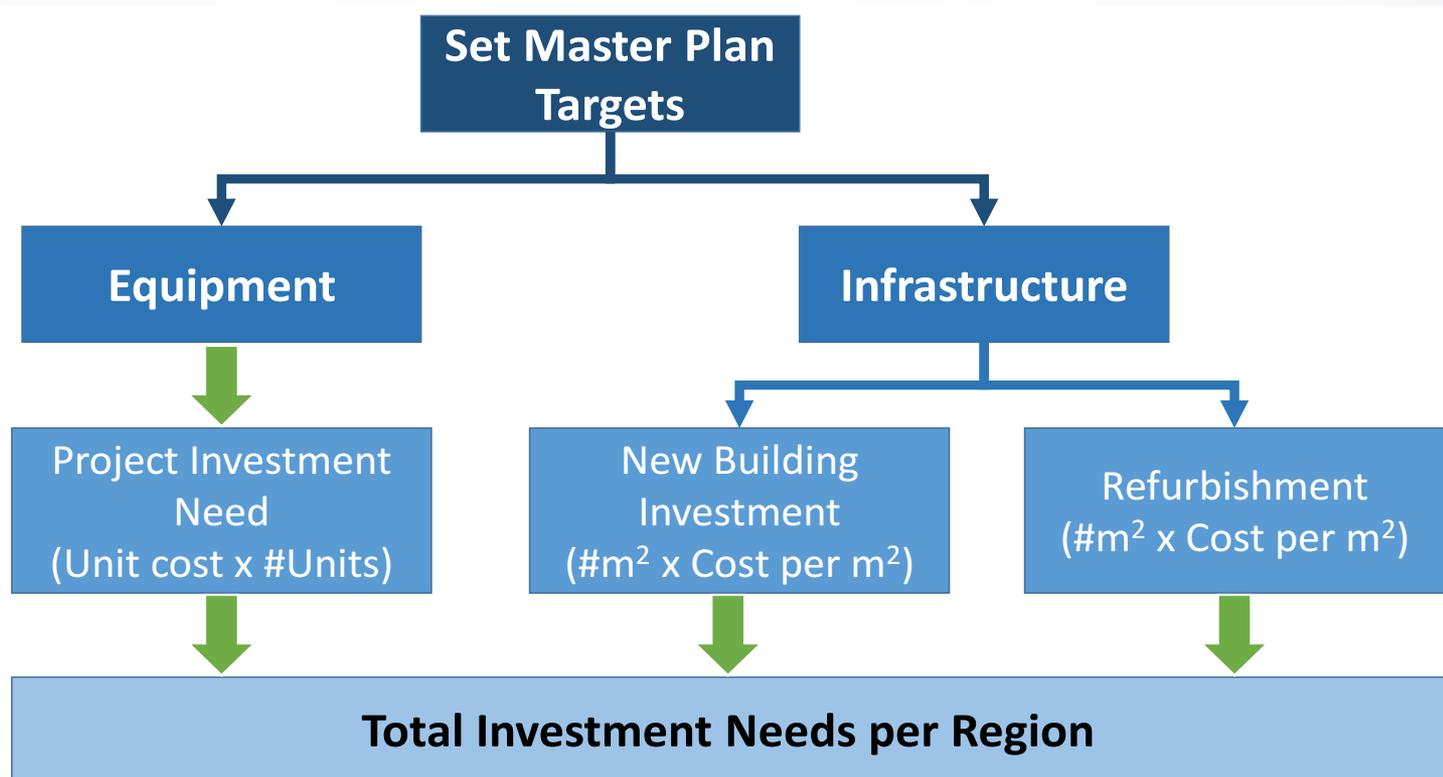
| Hospital Unit | Nurse to Occupied Bed Ratios | Total nurses needed | Riga | Kurzeme | Latgale | Zemgale | Vidzeme | Pieriga |
|--------------------------------------|------------------------------|---------------------|------|---------|---------|---------|---------|---------|
| Emergency Departments | 1 to 4 | 422 | 151 | 51 | 67 | 52 | 64 | 37 |
| General Medical Surgical floor | 1 to 4 | 1,068 | 660 | 119 | 140 | 80 | 31 | 39 |
| ICU/CCU | 1 to 2 | 85 | 54 | 11 | 2 | 8 | 5 | 6 |
| Labour and delivery | 1 to 2 | 196 | 64 | 24 | 38 | 26 | 19 | 24 |
| Neonatal ICU (RN's Only) | 1 to 2 | 29 | 11 | 2 | 8 | 4 | 3 | - |
| Pediatrics | 1 to 4 | 473 | 177 | 37 | 70 | 41 | 38 | 111 |
| Specialty Care (Dialysis & Oncology) | 1 to 4 | 393 | 216 | 40 | 69 | 24 | 23 | 21 |
| Telemetry Unit | 1 to 4 | 288 | 33 | 32 | 40 | 43 | 19 | 121 |
| Behavioural Health and Psych Units | 1 to 6 | 1,378 | 334 | 96 | 254 | 454 | 216 | 25 |
| Long-term care | 1 to 8 | 641 | 189 | 21 | 42 | 23 | 43 | 323 |
| TOTAL | | 4,973 | | | | | | |



Investment needs

Calculating Hospital Investment Needs

1. Estimate the changes required: Master Plan Target vs. Current Level for infrastructure and Equipment by region/facility
2. Estimate total investment needs in m² or units equipment
3. Monetize the investment by using unit cost estimates



Total investment needs

| Investment Category | Total Cost (in € million) (scenario 1) | Total Cost (in € million) (scenario 2) |
|-------------------------|--|--|
| Hospital Refurbishment | € 211 | € 174 |
| FF&E | € 53 | € 44 |
| MME Equipment | € 30 | € 30 |
| 2nd Priority Equipment | € 34 | € 34 |
| Other Medical Equipment | € 9 | € 9 |
| Total | € 336 | € 290 |

Infrastructure costs

| Investment Category | Scenario 1 (million €) | Scenario 2 (million €) |
|----------------------------------|---------------------------|---------------------------|
| NDC and RDC Refurbishing | € 211 | € 174 |
| Day Hospital Refurbishing | | € 23 |
| Furnishing | € 53 | € 49 |
| New building cost | € 61 | € 53 |
| Total Infrastructure Cost | € 325 | € 299 |

Equipment costs

High priority

- Angiography (digital)
- CT Scanners
- Gamma Camera
- Haemodialysis Units
- Linear Accelerators
- Lithotripter
- Mammography Units, and
- MRI Machines
- PET Scanner

Secondary priority

- Angiography (Ophthalmology)
- Echograph (general purpose)
- Echograph (Mammography)
- Surgical Laser
- Plasma Sterilizer
- X-Ray Hemodynamic Unit
- X-Ray Unit
- Mobile X-Ray Unit, Image Intense

Other equipment

- Anesthesia
- Arthroscopy
- Laboratory
- Defibrillator
- Dental Unit
- Echograph
- EKG
- EEG
- Endoscope
- Incubators
- Laparoscopy eq
- Tonometer
- Ventilator
- Fluoroscopy

First priority equipment gap

| Region | Hospital | Angiography (digital) | Gamma Camera | Haemodialysis Units | LINAC | Lithotripter | Mammography Unit | MRI |
|---------|--|-----------------------|--------------|---------------------|----------|--------------|------------------|----------|
| Kurzeme | Liepaja Regional Hospital | 2 | 2 | | 1 | 2 | | |
| | Regional Hospital Of Northern | | | | | 1 | | |
| Latgale | Daugavpils Regional Hospital | 2 | 2 | | 1 | 2 | | |
| | Rezeknes Hospital | | | | | 1 | | |
| Riga | Eastern Clinical University Hospital of Riga | 2 | 2 | | 2 | 2 | 2 | |
| | Pauls Stradiņš Clinical University Hospital | | | | | 2 | 1 | |
| | University Children Hospital | | | | | | | |
| Vidzeme | Madona Hospital | | | | | | | |
| | Vidzeme Hospital | | | | | 2 | | 1 |
| Zemgale | Dobele Hospital | | | 2 | | | | |
| | Jekabpils City Hospital | 1 | 2 | 5 | 2 | 1 | | 1 |
| | Jelgava City Hospital | | | 4 | | 1 | | 1 |
| | TOTAL | 7 | 8 | 11 | 5 | 14 | 3 | 3 |

Equipment costs

| Region | Major Medical Equipment (MME) | 2nd Priority | Other Equipment | Total Equipment Cost |
|--------------|-------------------------------|--------------|-----------------|----------------------|
| Kurzeme | € 6 | € 8 | € 2 | € 15 |
| Latgale | € 6 | € 8 | € 2 | € 15 |
| Riga | € 7 | € 12 | € 1 | € 20 |
| Vidzeme | € 2 | € 3 | € 1 | € 6 |
| Zemgale | € 9 | € 4 | € 3 | € 16 |
| Total | € 30 | € 34 | € 9 | € 72 |

2016 constant €



**Peer Review Feedback and
Changes**

Stakeholders who provided comments on the report

- Alūksne Hospital
- CDPC
- European Commission
- Latvian Association of Family Doctors
- Latvian Hospital Association
- Ministry of Finance
- Ministry of Health
- Ministry of Welfare
- National Health Service
- Pauls Stradiņš Clinical University Hospital
- Riga Hospital No. 1 and Riga Maternity Hospital
- Riga Hospital No.2
- Riga Stradiņš University and Latvian Health Economy Association
- State Emergency Medical Service
- Vaivari Rehabilitation Center
- Ziemeļkurzeme Regional Hospital

Categories that received the most comments

- Scope of facilities covered by the report
- Population and demand projections
- The level of care offered by Riga 2nd Hospital
- Estimation of human resource needs
- Correspondence with CPDC and NHS data
- Equipment availability
- PHC network distribution
- Relation of mental healthcare with PHC

Most important changes in response to stakeholder review

- ❑ Change of Riga 2nd Hospital from LTC facility to Level I Hospital in order to require fewer number of new beds at other Level 4 facilities.
- ❑ Change of Northern Regional Hospital from a Level II to a Level III Hospitals to increase geographical access to Level III hospitals.
- ❑ Riga 1st Hospital was included in the analysis as a Level II.
- ❑ Additional information on the current and proposed EMS network and resource needs was added to the chapter on EMS.
- ❑ The data on equipment was reviewed for several hospitals, which resulted in slightly modified equipment costs.

Most important changes in response to stakeholder review

- ❑ The text clarifies further why Riga is not considered for the first phase of development of Urban PHC Centers and Ambulatory Surgical Centers due to its higher relative development compared to the other regions.
- ❑ Additional explanation on the strengthening of PCP work with mental health care, where specialized psychiatric care for complex cases is recommended in polyclinics and through GP referral.
- ❑ Mortality rate for Riga 2nd Hospital was modified and the corresponding ranking.
- ❑ Overall corrections due to typos, numbering, references, etc.
- ❑ A different methodology was utilized for estimations of human resources, producing an estimation of FTE across the regions by specialty (which assumed the maximum FTE that any one provider could represent is 1.5, with their primary specialty and location valued at 1.0 FTE and other allocated evenly across the remaining 0.5 FTE)



Roadmap to implementation

Need for a supportive policy environment

- Link to key reform agendas:
 - ✓ Continue to improve capacity of PHC and create incentives for expanding access
 - ✓ Clinical guidelines and clinical pathways development linked to
 - evidence
 - provider payment mechanism
 - benefits package
 - ✓ Provider payment reform
 - ✓ Introduce Strategic Purchasing in key areas
- Other complementary reforms
 - ✓ Strategy for reallocating and retaining health care personnel in the regions
 - ✓ Improve patient transport and patient communication mechanisms e.g. telehealth
 - ✓ Training both providers and patients on the network reconfiguration.
 - ✓ Changes in the benefits package reflected by evidence-based guidelines and pathways.

Road map to implementation

1. Setting detailed plans

- Obtain data at facility-level on
 - ✓ workforce, its skill mix, and working hours and
 - ✓ Detailed investment need @ facilities.

2. Phase implementation approach – University/Regional + PHC and then local hospitals

3. Consulting stakeholders

- Two very influential groups deserve additional attention:
 - ✓ Clinical leaders in the main disease groups
 - ✓ Local politicians representing the municipalities to be affected by proposed hospital downgrades.

Thank you

Comments and Questions:

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