

CHEFS O PROF MÖTE



***GENOMICS MEDICINE SWEDEN***

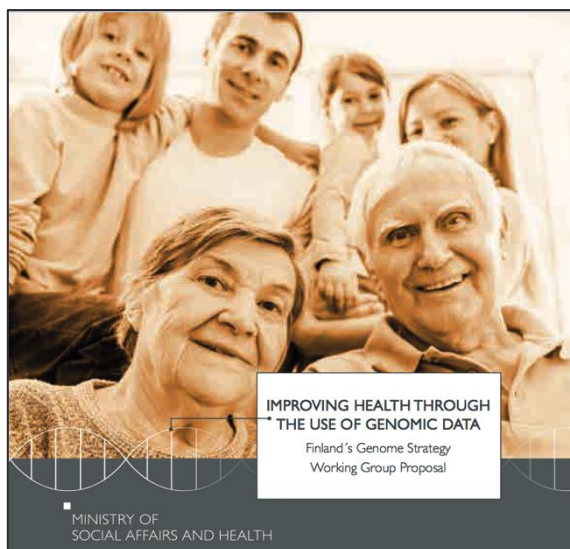
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# European Initiatives, 2013-2025

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
ENGLAND													
SCOTLAND													
THE NETHERLANDS													
FRANCE													
IRELAND													
SWITZERLAND													
FINLAND													
NORWAY													
DENMARK													

COUNTRY	COMPANY/INSTITUTION	TIME	SCOPE	FUNDING	PROGRESS	MEDICAL FOCUS
ENGLAND	Genomics England Ltd. (GeL)	2013-2018	100,000 genomes	£411 M	~22,000 genomes	Rare Diseases Cancers
SCOTLAND	The Scottish Genomes Partnership (SGP)	2015-perpetual	~3,000 genomes	£23 M	~3,000 genomes	Rare Diseases Cancers Population Studies
THE NETHERLANDS	Hartwig Medical Foundation (HMF)	2015-2017	>10,000 cancer patients	€30 M	~2,000 patients	Cancers
FRANCE	France Médecine Genomique (AVIESAN)	2015-2025	235,000 WGS/annum by 2020	€670 M (-2020)	Initiated	Rare Diseases Cancers
IRELAND	Genomics Medicine Ireland (GMI)	2016-perpetual	~60,000 genomes ~100,000 genotypes	\$40 M	Initiated	Population studies Rare Diseases
SWITZERLAND	Swiss Personalized Health Network (SPHN)	2017-2020	Informatics structure	CHF 80 M	Waiting approval	Rare Diseases Cancer Infectious Diseases
FINLAND	Finland's Genome Strategy (FGS)	2017-2020	National infrastructure (operational by 2020)	€17 M (Request for €50 M)	Planning phase	Rare Diseases Cancer Pharmacogenetics Genetic Risk Susceptibility
NORWAY	The Norwegian Strategy for Personalised Medicine in Healthcare	2017-2021	<13,000 WGS/annum	NOK 8 M (pre-analysis)	Planning phase	Rare Diseases Cancer Infectious Diseases
DENMARK	Det Danske Genom Program	2017-2021	~100,000 genomes	DKK 5 M (pre-analysis) DKK 100 M	Initiated	Rare Diseases Cancer Diabetes Companion Dx

# Nordic Initiatives



Finland



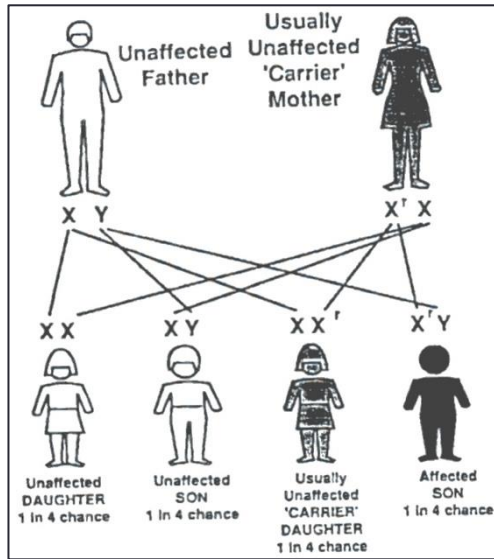
Norway



Denmark

- Finland, €17 M
- Denmark, DKK 100 M (DKK 6 M pre-study phase)
- Norway, NOK 8 M (pre-study phase)

# GMS Focus Areas



## Rare Diseases:

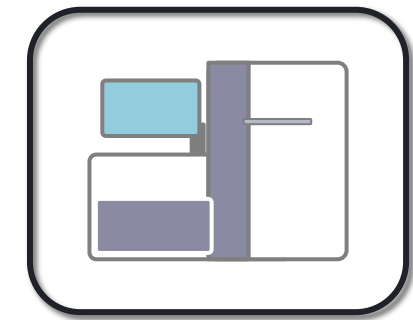
- Whole-genome sequencing
- >2,000 samples in routine diagnostics (since 2014)
- >35% more diagnoses



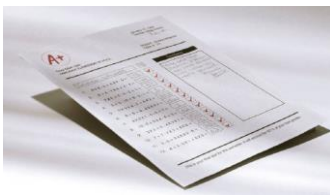
## Cancer:

- Solid tumors and leukemia:
  - Broad gene panels
  - RNA-sequencing
  - WES and WGS
- >3,000 samples in routine (since 2014)

# Clinical diagnostics



Genomic analysis

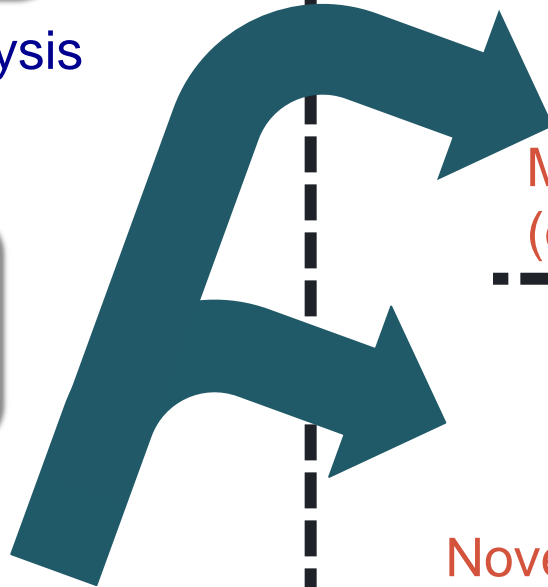


List of variants

Filter



Actionable mutations



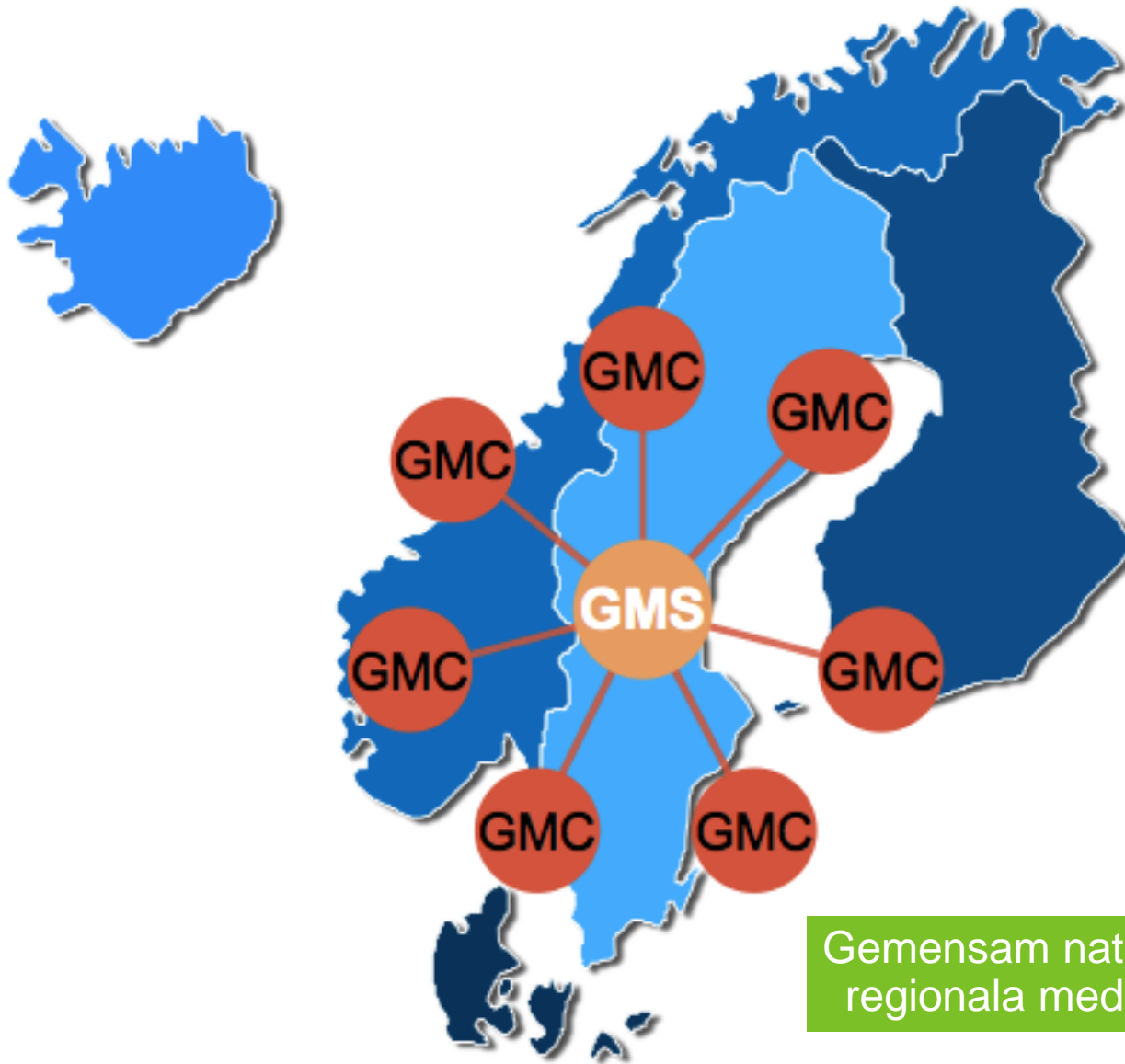
Multidisciplinary conferences  
(e.g. MTB)

Filter

Novel biomarkers

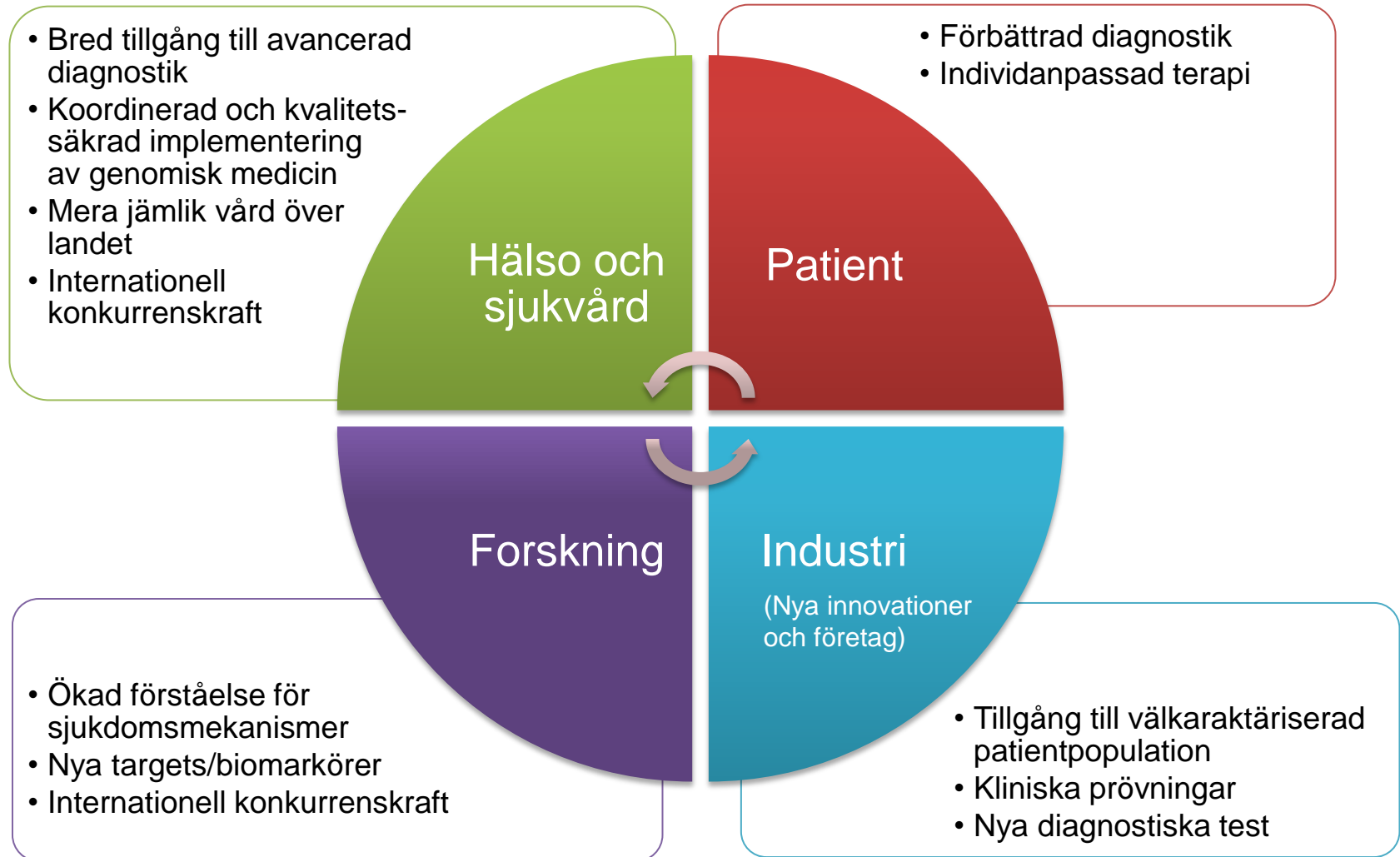


# Konceptet Genomics Medicine Sweden (GMS)



Gemensam nationell infrastruktur med regionala medicinska genomikcentra

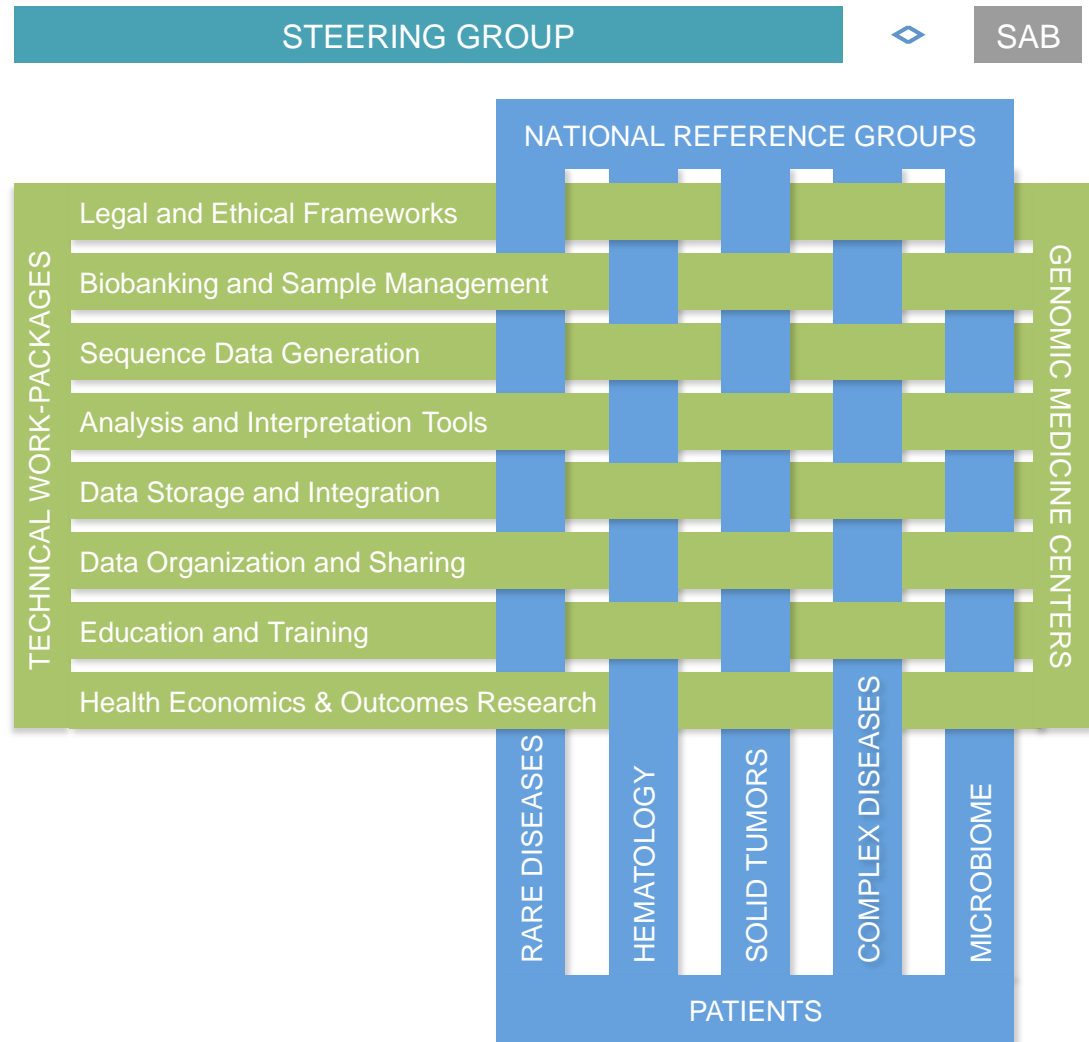
# Samhällseffekten av GMS



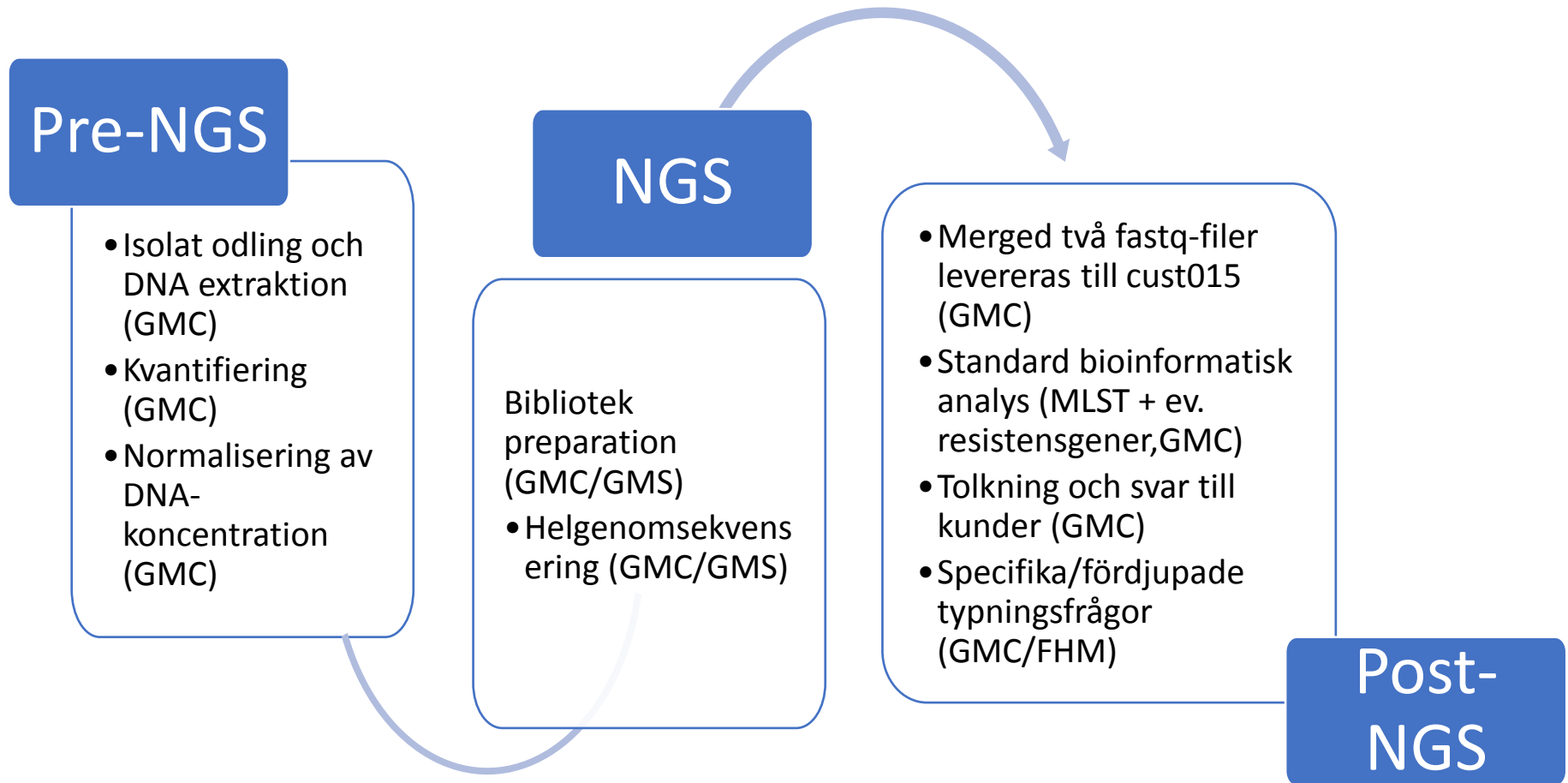


# GMS implementation strategy

- New national infrastructure in healthcare:
  - Diagnostic & Therapeutic reference groups
  - Technical work packages
- Regional Genomics Medicine Centers (GMC)
- 10-year perspective







# Övergripande arbetsflöde och ansvarspartner i bakt epidemiologisk typning med NGS























# Förankring

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