



The Hellenic Network of Biobanks-BBMRI-GR
Dr. S.Kolyva
Representative of Greece
in the General Assembly of BBMRI-ERIC

BBMRI policies

- Primacy

Respect the **primacy of national and European legislation** and respect the jurisdiction of competent authorities

- Data protection policy:

No data on individuals will be made publicly accessible

- Access policy:

Fair access in context of **specific research projects** and after REC approval; **biobanks do not loose control**

- Informed consent:

Implementation of the **OECD guidelines** for Human Biobanks and Genetic Research Databases

- Infrastructure and management:

Implementation of the **OECD best practice guidelines** for Global Biological Resource Centres Networks.

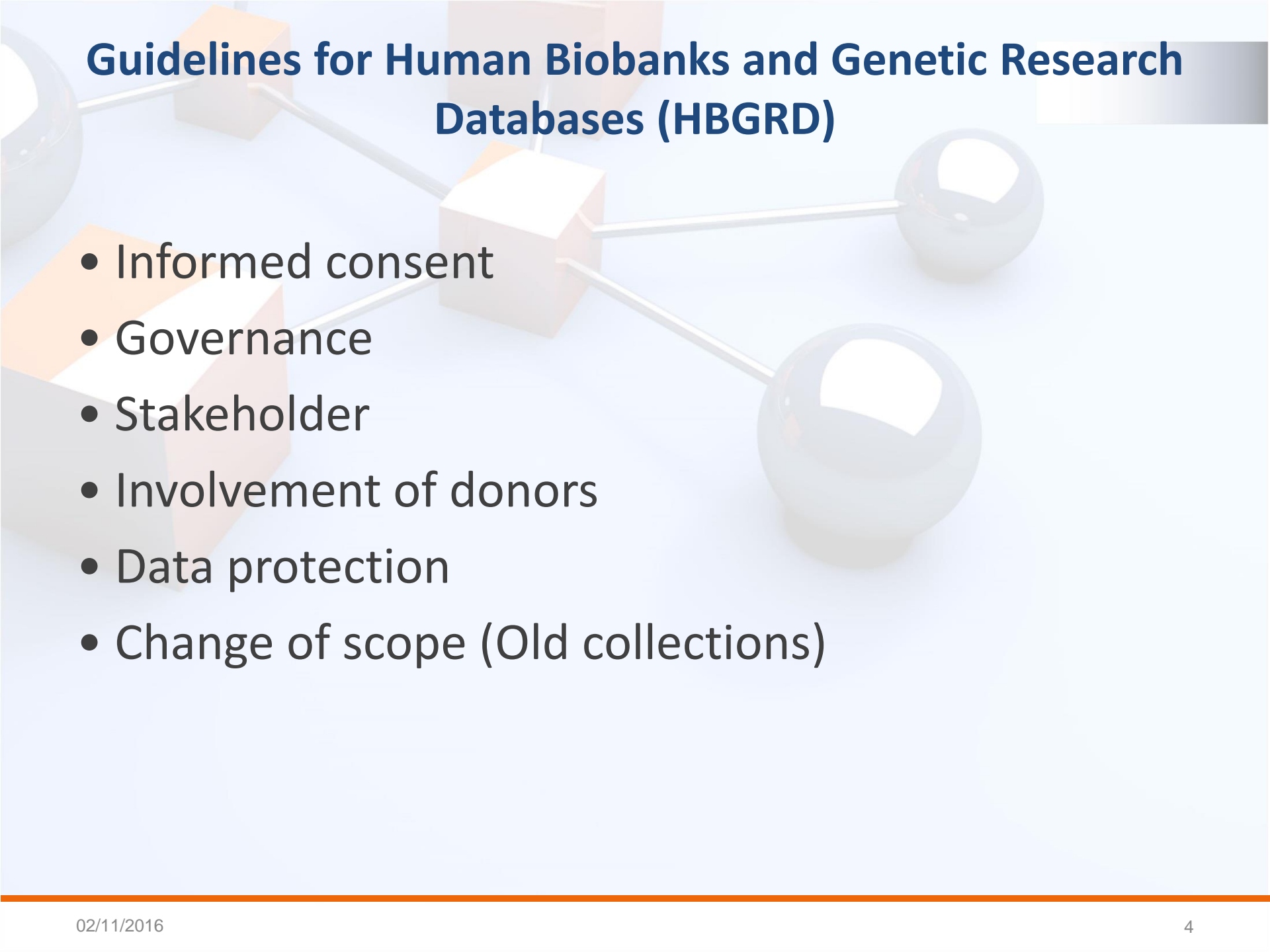
- Sample collection and processing:

SOPs for processes considering the **WHO/IARC guidelines** for biological resource centres for cancer research

Human-Derived Material

- Organisational requirements
- Staff-qualifications and training
- Premises
- Equipment
- Documentation
- Informatics
- Services
- Preparation of samples
- Accession of deposits
- Preservation
- Supply of biological material
- Quality audit and quality review

Guidelines for Human Biobanks and Genetic Research Databases (HBGRD)



- Informed consent
- Governance
- Stakeholder
- Involvement of donors
- Data protection
- Change of scope (Old collections)

Steps Towards Access



- Information on web site
- Registration as user
- Query of aggregated data
- Identification of biobank partners
- Definition of project
- Processing fee
- Agreement on access (collaboration, fee, MTA)
- Approval by BBMRI REC and SRB
- Approval by local REC
- Access to samples and coded data of individuals
- Transport
- Feedback of research data to BBMRI



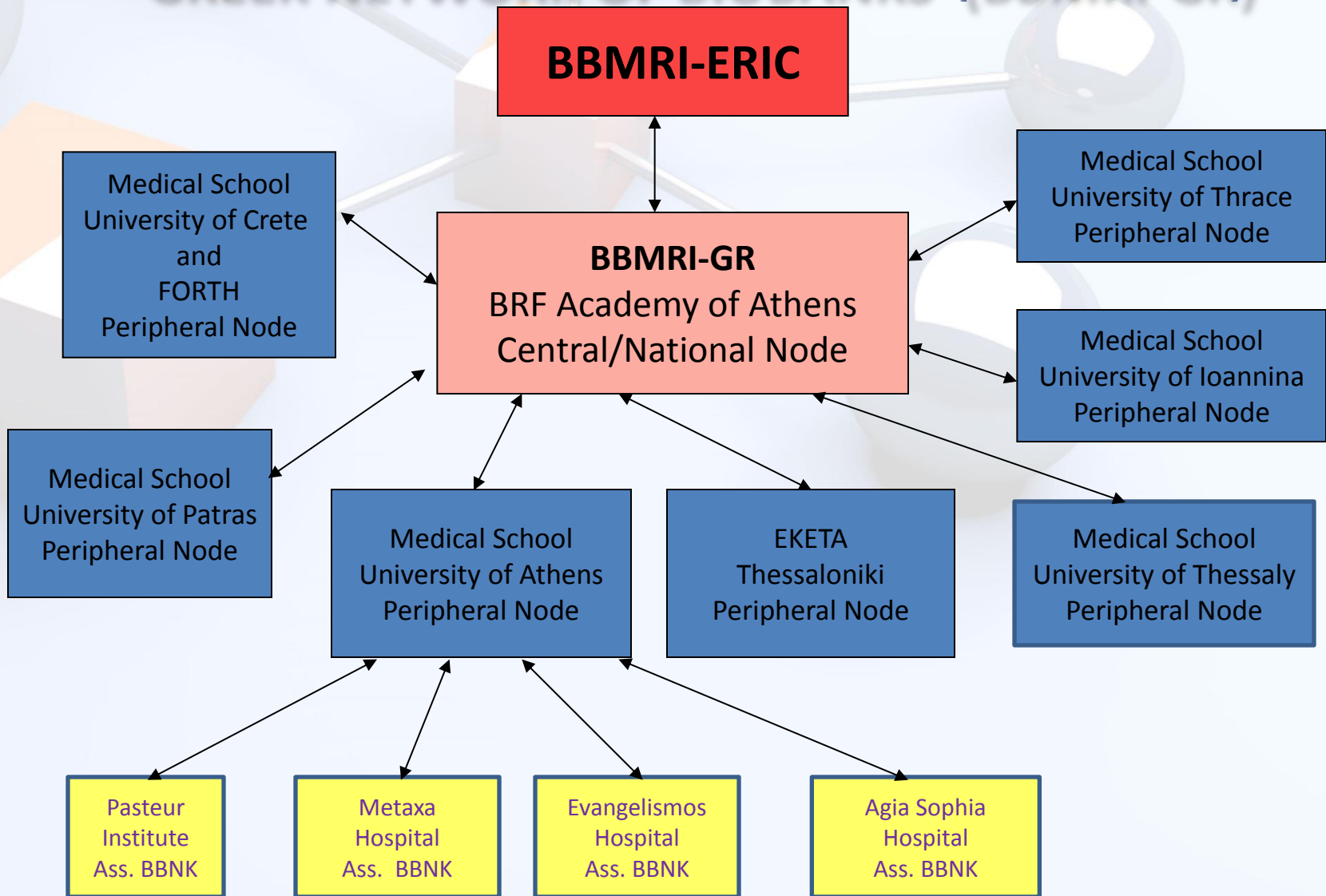
The BBMRI-GR Infrastructure

- BBMRI-GR is a national distributed infrastructure integrating 7 biobanks from all over Greece.
- It covers the full spectrum of diseases e.g. neurodegenerative, cancer, hematological, lung disorders, rare diseases
- BBMRI-GR connects, Ministries, Research Centres, Universities, industry, hospitals and patients associations.

Members of the BBMRI-Gr



GREEK NETWORK OF BIOBANKS (BBMRI-GR)





BBMRI Expert Centres

A new model of public-private-partnership
to improve efficacy of biospecimen
research for academia and industry

A Win – Win Situation

- Industry needs access to samples, data and scientific/medical expertise
- Industry can provide important know how and in kind contribution
- Biobanks require involvement of industry to contribute to improved health care
- Biobanks require additional funds for sustainability

Expert Centres for Transnational Research Collaborations. Key criteria

Generic

A check-list for cohorts, resource centres and/or analytical laboratories to be listed as BBMRI Expert Centres:

- Involvement of research leaders in the relevant field(s)
- Application of common quality systems in co-operation with other Expert Centres with similar focus
- Establishment of confidentiality and intellectual property rules
- Compliance with ethical and legal rules
- Commitment for efficient handling of contracts and projects
- Accreditation by BBMRI-ERIC with periodic external audits
- Co-operation agreement in place between BBMRI-ERIC and Expert Centre confirming the criteria above

Technological

- Implementation of academic and industry standard technologies
- Track record in development/implementation of cutting-edge technologies
- Use of common standards and reference samples
- Publication of general SOPs for sample pre-analytics, molecular analysis and data processing
- Participation in proficiency testing/ ring trials
- Certification (e.g. ISO)



BBMRI-GR services (genomics/proteomics)

Whole Genome Sequencing (30X)

Exome Sequencing (100X)

RNAseq

miRNAseq

Data analysis

Modeling

Advanced proteomics

The background features a network of 3D cubes and spheres connected by thin lines, set against a light blue gradient. The cubes are in shades of orange and white, while the spheres are white with blue highlights. A horizontal grey bar is visible in the top right corner.

BBMRI-GR services Induced Pluripotent Stem Cells (iPSCs) Production Platform

Biobanking of iPSC cells

Differentiation schemes for iPSCs

Pharmacogenomics

Experimental cell therapy protocols

Transcriptomics-Proteomics-Metabolomics of
iPSCs-derived differentiated cells



www.bbmri-eric.eu

THANK YOU!