

Patient perspective on Big Data

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Why big data?

**Because we are
way too slow and
inefficient
to learn to understand and
tackle 200+ different cancers
effectively**

Silos are for farms, not for pharma!

(neither for patients!)

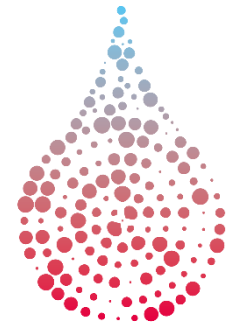


Why do we think Big Data is a promising approach to tackle cancer?

Key issues of relevance for patients:

- **Break down the silos:** get clinicians and clinical groups, different industry players, HTA agencies, patients to collaborate
- **Rapid sharing, consolidation and learning from data:** detecting signals from analysing multi-source complex data sets
- **Improve characterization of cancers** in order to improve treatment strategies
- **Re-define treatment goals** based on individualized risk assessments and outcome measures
- Build some basic evidence for the **design of innovative clinical studies**
- **Involve the patient perspective in the definition of relevant outcomes**

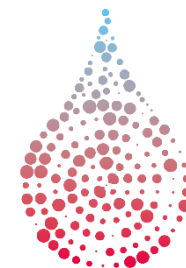
Big data is in infancy, but happening: IMI2 HARMONY



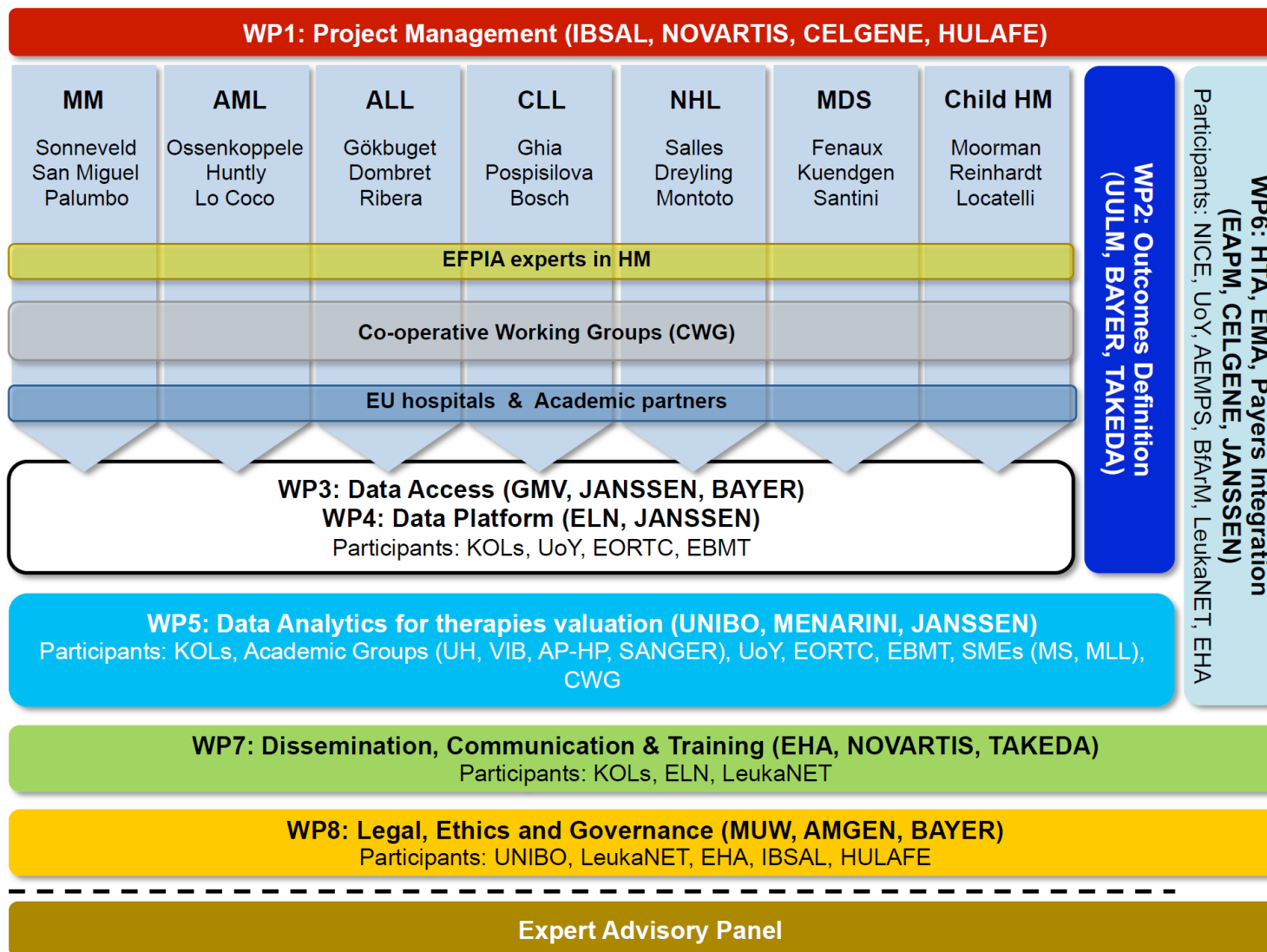
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- Pan-European IMI project, 2017-2022
- Goals
 - Speed up drug development, access pathways
 - Improve diagnosis and patient stratification
 - Optimize therapeutic choices and predict efficacy and toxicity of certain treatments
 - Provide robust data on therapeutic value
- Largest Public Private Partnership in hematology 40 M€, 51 public-private partners, 11 European countries
- Patient orgs are involved in consortium and as partners

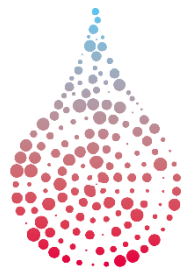
The patient community is part of HARMONY



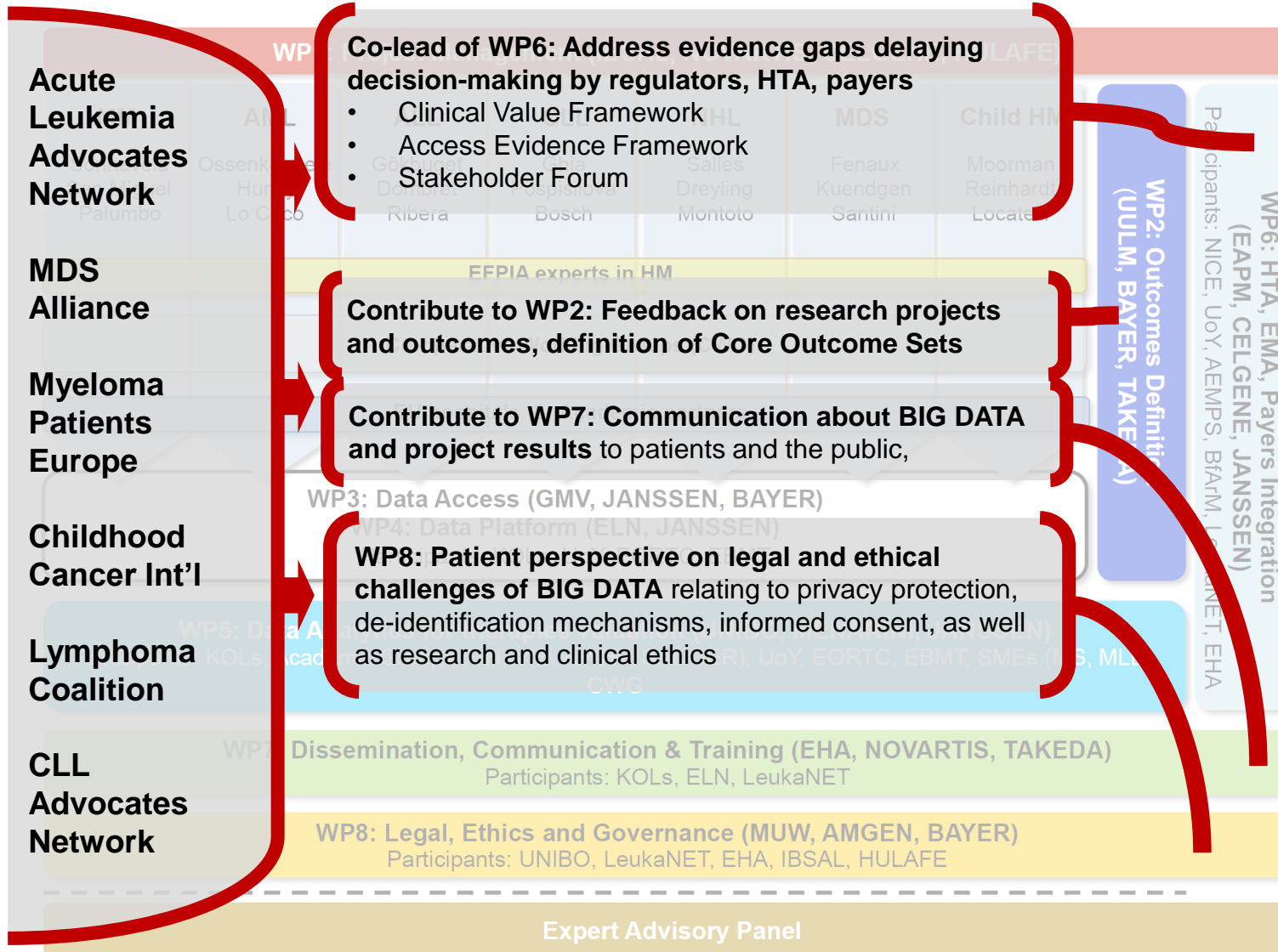
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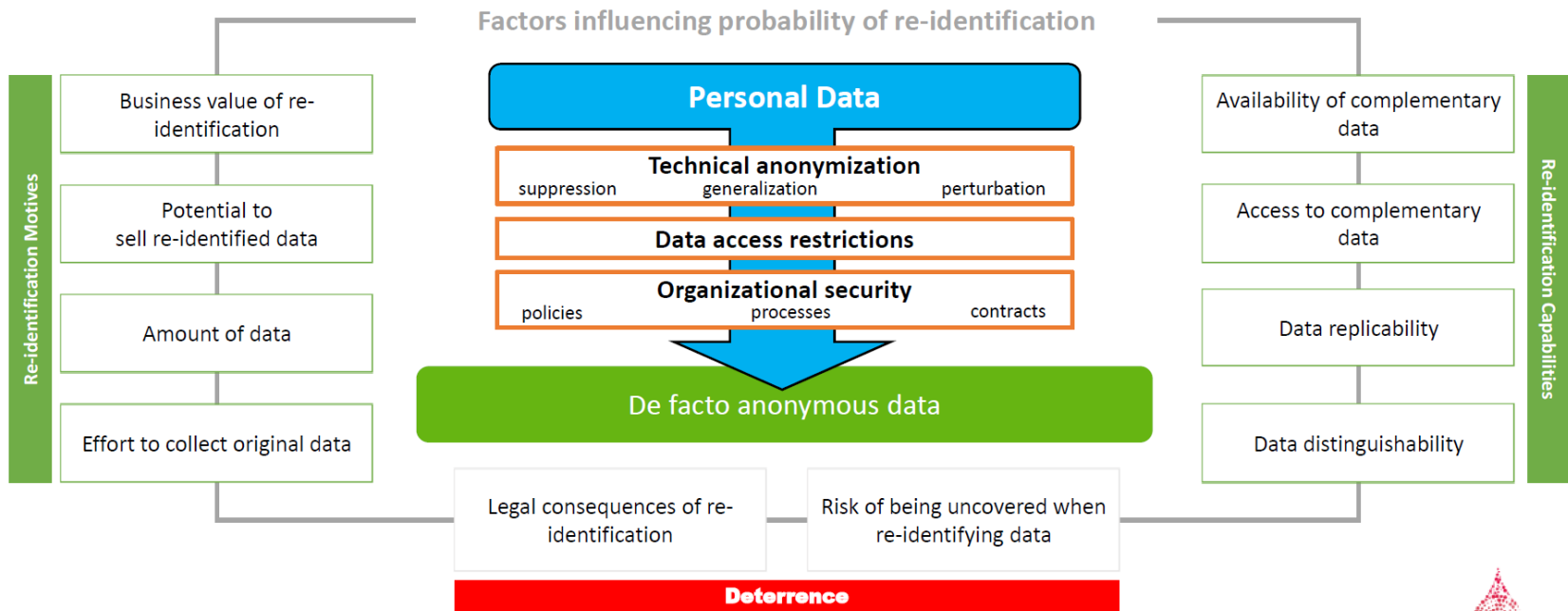
Patient Involvement

Data protection: Paralysis by analysis



- The GDPR has only unified fines – up to 5% of your revenues!
- “Media/NGO can get us”
- “Anonymization (with genomics) is impossible”
- “this is for the advancement of medicine”
- “no one wants to identify patients”
- “there must be valid exceptions”
- “Anonymization renders data useless”

Data protection: Paralysis by analysis ... and how we've helped tackle it



- Sufficient anonymity is reached if identification would require an unreasonable effort
- HARMONY Anonymization Concept complies with applicable data protection laws including GDPR



- Big Data can largely influence rapid learning, outcomes, treatments – **which is what matters to patients**
- It requires **leaving the silos** of academia, industry, regulators, patients
- **Patients need to be fully involved** – still a lot of ignorance around there