



## **The PsyData project; building a learning health system in Psychiatry based on applied data analytics**

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Psychiatric disorders are complex in aetiology, dynamic over time and to a large extent influenced by the interaction between the individual patient and its environment. Big data statistics can partly deal with this complexity by using real life data in real time from a clinical population. As such, big data provides opportunities to create risk profiles and improve mental health care for patients at an individual level. The PsyData project at the UMC Utrecht focuses on the stimulation of a data-driven organization in mental health care. By building flexible decision support systems, based on clinical data from the electronic patient file, professionals and patients have direct insight in daily practice and can make a profit out of it. However, to be able to replicate and validate algorithms, findings and applications it is important to increase the amount of data used. Due to privacy issues it is difficult to combine patient data from different organizations or hospitals. To circumvent this problem a compute-visits-data model was built. Algorithms, output and software can be exchanged in this model whereas data stay in the original hub. In this presentation it will be shown why and how the PsyData project was implemented and how clinical practice and care networks can benefit from it.