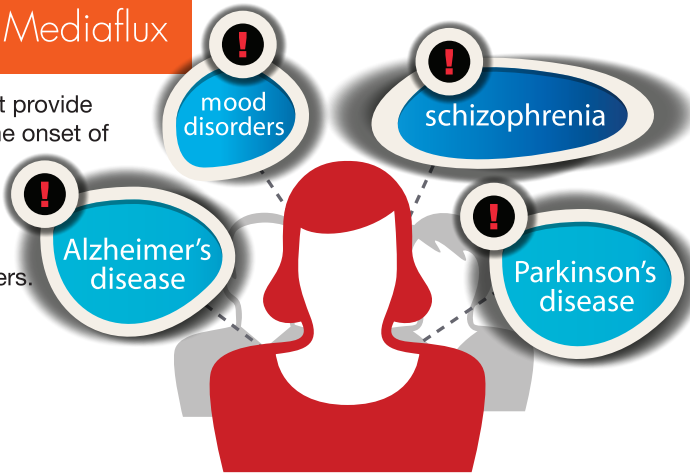


The driver for Mediaflux

Identify biomarkers that provide an early indication of the onset of mental illness, including Alzheimer's disease, Parkinson's disease, schizophrenia & various mood disorders.



The challenge

Researchers conduct multiple studies, over many years, to identify biomarkers that provide an early indication of the onset of mental illness.



Capture data at bedside



Import / Export data



The Mediaflux solution

Support mobile devices



Users add functions easily when needed



Enhance collaboration between researchers

The result

One system to:



Case study facts

Data being analysed:

- 100 terabytes of data
- across 19 organisations
- from body scans, genomics, EEG, blood tests and clinical notes.

A case study about...

Cooperative Research Centre
for Mental Health (CRC)



The project's aim

Identify biomarkers that provide an early indication of the onset of mental illness, including Alzheimer's disease, Parkinson's disease, schizophrenia and various mood disorders.



The challenge

Modern medical research relies on data collected from volunteers to test the effectiveness of new products and discover new ways of diagnosing diseases early.

To identify the causal factors for a mental illness, researchers need to gather and assess an enormous amount of complex data from blood tests (genomic, proteomic and lipids), body scans, EEG and clinical notes.

Researchers get so many indicators from the blood it's hard to isolate the specific biomarkers responsible for the development of mental illness.

Researchers and clinicians need to conduct home visits for study participants unable to attend the assessment clinics or sites at the CRC for Mental Health.



The Mediaflux solution

Arcitecta is building a web-based repository from clinical observation studies being conducted at the CRC for Mental Health (using its Mediaflux data management platform) to:

- make it easier for clinicians to capture data at the bedside
- easily import and export new and existing data
- enhance collaboration between researchers
- allow users to develop additional functions as needed.

Arcitecta and the CRC for Mental Health have each provided in-kind contributions to this project. This is in addition to the funding provided by the Victorian Department of State Development, Business and Innovation.



The result

CRC for Mental Health researchers can use one system to store, search and manage over 100 terabytes of complex data spread across 19 organisations.

Data drawn into the web-based repository will be quality assessed and provide a seamless connection between neuroimaging data, clinical blood data, gene sequences and the result of proteomic studies.

This means it will be easier to:

- share data securely with research partners nationally and internationally, and
- accelerate searches, reducing the time between data capture and the insights gained from it.

About Arcitecta™

Arcitecta is at the forefront of the growing market for solutions that address complex distributed data management issues.

Arcitecta's core product, Mediaflux®, is an operating system for metadata enabling distributed groups of people to share, manipulate and manage any type of data.

The company's products are deployed in geospatial, eResearch and eHealth contexts, streamlining data intensive workflows and simplifying data management for better business outcomes.



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