

Publishable Summary

This Deliverable describes the proposed technical solution for image data sharing within and beyond AMYPAD's partners. Specifically, this document presents the background and the proposed solution for image storage, handling and analysis in both AMYPAD and EPAD, in order to 1) efficiently distribute the images acquired within the respective consortium partners, 2) adopt a centralized repository of intermediate processed images and outcome variables to enable further investigations, and 3) share the acquired images and obtained data with the general scientific community.

The proposed solution relies on an instance of the Extensible Neuroimaging Archive Toolkit (XNAT) which is currently functional at VUmc and is already serving EPAD's LCS. XNAT is an open-source imaging informatics platform (<https://www.xnat.org/>), which allows data upload, management, sharing, visualization and download. It also enables researchers to establish secure data access to pre-specified project partners, and provides an online imaging viewer which prevents unnecessary data transport.

This document explains the rationale for expanding the current XNAT server to accommodate both EPAD LCS, AMYPAD-PNHS and AMYPAD-DPMS data and describes the resulting imaging data flows for the three projects.

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