

Pillar II integrates these data to generate a robust causal computational model of ALS and a computational model of the rate of progression of the disease

- A robust causal ALS model will be generated using a methodology that has been successfully developed and applied by the consortium. In essence, this statistical methodology uses causal inference aiming to discriminate between causally, reactively and pleiotropically associated signals in multilevel -omics data, and to identify master regulatory signals that are propagated from the DNA level to the metabolomic and phenotypic level as fragile hubs and major targets for follow-up. Since both case-control and fast-slow disease progression will be modelled, causal pathways will be identified crucial to understand the underlying disease mechanisms and to base therapy on.