

A. MTI processing

ihMT images

ihMT flow

MTI metrics

Mtsat
MTR
ihMTR
ihMTdR1sat

B. DWI processing and Bundles extraction

DWI + T1

Tractoflow

RecoBundle

Tractometry

DWI metrics

DTI : FA, MD, RD, AD
NODDI : ISOvf, ICvf, ECvf, OD
HARDI : AFD total, NuFO

Whole Bundle

Profile Bundle

Fiber population

Whole single
compartment

Whole multi
compartment

Profile single
compartment

Profile multi
compartment

Extraction of DWI and
MTI measurements

Consistency analysis of whole and
profile « **average** » bundle
ICC, CVw, CVb

**C. Whole and Profile
consistency**

Extraction of DWI and
MTI measurements

Consistency analysis of whole and
profile bundle for each
« **fiber compartment** »
ICC, CVw, CVb

**D. Impact of fiber population on
consistency**