

1 Core 1 Timelines and Milestones

1.1 MIT

Year 1–3 milestones indicated in the proposal and status:

Aim	Milestone	Proposed time of completion	Status
1.1	Methods to learn shape representations	Year 2	Completed
1.2	Shape in atlas-driven segmentation	Year 4	Partially completed — preliminary results
1.3	Validate and refine approach	Year 5	Partially completed — preliminary validation
2.1	Methods to compute statistics of shapes	Year 4	Partially completed — software framework
3.2	Fiber statistics	Year 4	Partially completed — tract clustering

Planned modifications to the proposed timeline:

Aim	Milestone	Modification
2.4	Plan to develop software infrastructure to integrate shape analysis tools into the pipeline for population studies.	New
4	Plans to for fMRI development including local and atlas-based priors for quantifying activation.	New

1.2 Harvard — MGH

Year 1–3 milestones indicated in the proposal and status:

Aim	Milestone	Proposed time of completion	Status
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Planned modifications to the proposed timeline:

None.

1.3 Utah

Year 1–3 milestones indicated in the proposal and status:

Aim	Milestone	Proposed time of completion	Status
1.1	Filtering of DTI	Year 2	Completed
1.2	Quantitative analysis of DTI	Year 3	Completed partially, ongoing
1.3	Segmentation of cortex/WM	Year 3	Completed partially, ongoing
2.1	Filtering and feature detection	Year 3	Incomplete, ongoing.
3	Fast implementations PDEs	Year 4	Incomplete, ongoing.

Planned modifications to the proposed timeline:

Aim	Milestone	Modification
2.2	Feature-based brain image registration.	Shift emphasis to shape-based analysis/registration

1.4 UNC

Year 1–3 milestones indicated in the proposal and status:

Aim	Milestone	Proposed time of completion	Status
1.1	Comparative anal. of shape anal. schemes	Year 2	Completed
1.3	Statistical shape analysis incl. patient variable	Year 5	Completed
2.1	DTI tractography tools	Year 4	Completed
2.2	Gometric characterization of fiber tracts	Year 5	Completed
2.3	Quant. anal. of diffusion along fiber tracts	Year 5	Completed

Planned modifications to the proposed timeline:

Aim	Milestone	Modification
1.2	Develop medially-based shape representation	Remove
2.4	DTI Atlas Building (Years 2–4)	New

1.5 Georgia Tech

Year 1–3 milestones indicated in the proposal and status:

Aim	Milestone	Proposed time of completion	Status
	ITK Implementation of PDEs	Year 2	Completed
	Applications to Core 3 data	Year 4	Results and ongoing
	New statistic models	Year 4	Completed — preliminary results

Planned modifications to the proposed timeline:

Aim	Milestone	Modification
	Shape analysis	New

2 Core 2

2.1 GE

Need data.

2.2 Kitware

Need data.

2.3 Harvard — Brigham

Year 1–3 milestones indicated in the proposal and status:

Aim	Milestone	Proposed time of completion	Status
1	NAMIC builds of slicer	Years 2–5	Complete — release of builds 2.5, 2.6
1	Schizophrenia and DBP interfaces	Year 3–5	Partially completed, ongoing
2	ITK Integration tools	Year 1–3	Completed
2	SLIPIE integration	Year 2–4	Completed
2	fMRI/DTI algorithm support	Year 2–5	Completed DTI, Ongoing fMRI
2	New DBP algorithm support	Year 2–5	Ongoing
3	Compatible build process	Year 1–3	Completed
3	Dart Integration	Year 1–2	Completed, upgrades ongoing
3	Test scripts for new code	Year 2–5	Ongoing

Planned modifications to the proposed timeline:

None.

2.4 UCLA

Need data.

2.5 UCSD

Year 1-3 milestones indicated in the proposal and status:

Aim	Milestone	Proposed time of completion	Status
1	Grid computing—base	Year 1	Completed
1	Grid enabled algorithms	Year 3	Ongoing
1	Testing infrastructure	Year 4	Initiated
2	Data grid — compatibility	Year 2	Completed
2	Data grid — slicer access	Year 2	In progress
3	Data mediation — deploy	Year 1	Incomplete (modification below)

Planned modifications to the proposed timeline:

Aim	Milestone	Modification
3	Data mediation	Delayed pending integration of databases into NAMIC infractructure

3 Core 4

Need data.

4 Core 5

Need data.