



PROJECT ICARUS: TERMS OF REFERENCE DOCUMENT

The text below constitutes the Terms of Reference (ToR) for Project Icarus and sets out what is to be achieved by the design study. This is frozen for the duration of the project and essentially represents the initial requirements.

The Terms of Reference are as follows:

1. To design an unmanned probe that is capable of delivering useful scientific data about the target star, associated planetary bodies, solar environment and the interstellar medium.
2. The spacecraft must use current or near future technology and be designed to be launched as soon as is credibly determined.
3. The spacecraft must reach its stellar destination within as fast a time as possible, not exceeding a century and ideally much sooner.
4. The spacecraft must be designed to allow for a variety of target stars.
5. The spacecraft propulsion must be mainly fusion based (i.e. Daedalus).
6. The spacecraft mission must be designed so as to allow some deceleration for increased encounter time at the destination.

There is also the addition of a project scope as follows:

‘The required milestones should be defined in order to get to a potential launch of such a mission. This should include a credible design, mission profile, key technological development steps and other aspects as considered appropriate.’

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