Aim at 3-6 pages per subtopic (exact page limits not crucial)

1. Title of Science Sub-Topic

2. List of people who contributed to this science topic discussion, with their institutions

3. Scientific Background (potentially one Figure in this section)
    - What is the scientific issue, and why is it important?
    - High level objectives and goals
    - How does AO help? How would NGAO help? (brief qualitative discussion)
    - How do ground-based optical-infrared observations complement space-based observations and information from other wavelengths?

4. Proposed observations and targets
    - This is the most important section
    - Include at least one Figure

5. Comparison of NGAO w/ current LGS AO
    - Preferably quantitative comparison, but at least a qualitative discussion
    - Include Figures here if available

6. AO and instrument requirements
    - Essential
    - Desirable but not absolutely essential
    - For instrument requirements:
        - What can be achieved with OSIRIS plus a modest upgrade to NIRC2?
        - What could be achieved with brand new instruments (e.g. super-NIRC2, super-OSIRIS, visible imager, visible IFU, near-IR deployable IFUs)

7. Program Summary (text and/or tables):
    - Intrinsic brightness of targets
    - Specific observables (including images or spectra, what wavelength bands, etc)
    - Sample targets

Target density on sky, if more than ~ 1 target per few square arc minutes

Observing requirements:

- What spatial resolution is needed
- What spectral resolution is needed
- What photometric or astrometric accuracy is needed
- What SNR is needed
- Estimate of exposure time per target
- Special requirements on tip-tilt stars
- Required PSF stability
- Total number of nights needed to complete observing program