NASA Flexible Path Policy - file:///C:/Users/socce/Downloads/1390%20(Korsmeyer).pdf  
<https://ti.arc.nasa.gov/publications/1390/download/>

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**Article Title:** Establishing a Robotic, LEO-to-GEO Satellite

Servicing Infrastructure as an Economic

Foundation for Exploration

**Purpose of the study:** Review the steps necessary and benefits of an LTG satellite-servicing infrastructure.

**Research Questions:** Creation of a “space harbor” to serve as transport facility for a fleet of autonomous robotic satellite-servicing spacecraft (includes satellite command, communication, and control system; a parts station, a fuel station, and fuel/parts replenishment transport).

(^ this is totally what the author has in mind)

**Current Knowledge on Topic/Introduction:**

Reasons for research:

* Modern world extremely dependent on several hundred civil, military, and commercial spacecraft/satellites currently stationed in space (4,987 satellites orbiting Earth - United Nations Office for Outer Space Affairs)
  + They provide stream of commerce, defense, and knowledge data
* “World satellite revenues as of June 2010 stood at $160.9 billion, up from $82.7 billion in 2004 for an average annual growth of 11.7%”
  + “Could result in lower industry risk, insurance premiums, and operating costs”
* Satellite servicing ‘began’ with the first U.S. EVA on Gemini 4 (1965)
  + Telerobotic/satellite servicing technology still continued by European Space Agency
* NASA 2010 “International Workshop on On-Orbit Satellite Servicing,”
  + Paired with strong foreign/international interest “suggest the potential for a government-supported, commercial, international race-to-market between 2010-2015”
* “NASA decided to develop a $288-million Flight Telerobotic Servicer in 1987 after Congress voiced concern about American competitiveness in the field of robotics”
* Goals of U.S. Space Policy (Flexible Path)
  + “Energize competitive domestic industries”
  + “Expand international cooperation”
  + “Expand international cooperation”
  + “Strengthen stability in space”
  + “Increase assurance and resilience of mission-essential functions”
  + “Pursue human and robotic initiatives”

**Results/Future Work:**

**Relation to Project:**

**Sources (Is there more info in *its* sources?):**

**Additional Notes:**