

Project Deliverable 5: Technology Gap Analysis

A key aspect of your TCP is to answer questions such as: “If this is such a great idea, why can’t I buy one today?!” Of course, there are many types of hurdles to overcome when commercializing any technology. The purpose of this deliverable is to determine specifically if there are any technology gaps impeding broad-scale, profitable commercialization of your technology.

There are two aspects to this question:

- First, is there some technology that the *entire world* needs? For example, all-electric vehicles need low-cost, high-reliability super-capacity batteries for all-electric vehicles, and nuclear power generators need reliable spent fuel storage capabilities to enable profitable wide-spread application of these technologies.
- Second, is there some particular technology that *your sponsor* needs to be able to offer products and services using this technology? In other words, are they lacking a core technology required to bring products/processes/services to market?

The course lecture on technology roadmapping breaks the roadmapping process into two segments, with the first resulting in a strategic areas of focus roadmap and the second producing the actual technology roadmap. For this deliverable, you will skip the strategic area of focus roadmap and use the results of Deliverables 1-3 to identify a primary market focus for your technology gap analysis.

Regarding the technology roadmap, you will limit your process to identifying the primary functional blocks related to your technology and determining which, if any, present a technology gap for commercialization of your technology. Using the results of Deliverable 4, identify the single gap that presents the biggest hurdle to commercialization.

Finally, for the most critical technology gap, identify any core technologies that your sponsor needs to overcome this hurdle to commercialization.

Prepare your deliverable as a PowerPoint presentation that you will present to the class on the deliverable due date. Upload your presentation to the appropriate D2L discussion forum by 5:00 PM on the due date.
