

Definitions:

As this is a study of previously unstudied boundary-spanning activities incorporating qualitative interviews, as well as information from web sites, our definitions may be refined and/or expanded over the course of the research.

Boundary-spanning group – Cross-functional group focused primarily on S&T innovation and commercialization that brings together a combination of two or more of the key participants in the innovation system such as translational researchers, business services providers, entrepreneurs, funding source decision makers (such as angel investors, venture capitalists, foundation executives and government officials), policy specialists, or real estate developers. These groups can also include functional spheres such as sales and marketing, finance, accounting, applied research, design and engineering, or HR, and can either be within a single industry or between multiple industries.

There are two types of boundary-spanning groups that will be identified in this research — *formal* and *informal* — and are distinguished by things such as legal standing, group structure/organization (i.e. governance, extent to which they involve membership dues and/or other forms of financing), and purpose.

Active member – A member of a boundary-spanning group (as indicated by some method that distinguishes a person from the public, i.e., dues-paying) who participates in at least one of their group’s events per year.

Participant – A member or non-member (i.e., the public) who attends a boundary-spanning group event.

Science and Technology (S&T) – We use the NSF-accepted four-digit [NAICS codes list of high-technology sectors](#), put together by the [Bureau of Labor Statistics](#) (Table 1).

Table 1: 2002 NAICS codes that constitute high-technology industries

NAICS code	Industry
<i>Level I industries</i>	
3254	Pharmaceutical and medicine manufacturing
3341	Computer and peripheral equipment manufacturing
3342	Communications equipment manufacturing
3344	Semiconductor and other electronic component manufacturing
3345	Navigational, measuring, electromedical, and control instruments manufacturing
3364	Aerospace product and parts manufacturing
5112	Software publishers
5161	Internet publishing and broadcasting
5179	Other telecommunications
5181	Internet service providers and Web search portals
5182	Data processing, hosting, and related services
5413	Architectural, engineering, and related services
5415	Computer systems design and related services
5417	Scientific research and development services
<i>Level II industries</i>	
1131,32	Forestry
2111	Oil and gas extraction
2211	Electric power generation, transmission, and distribution
3251	Basic chemical manufacturing

3252	Resin, synthetic rubber, and artificial synthetic fibers and filaments manufacturing
3332	Industrial machinery manufacturing
3333	Commercial and service industry machinery manufacturing
3343	Audio and video equipment manufacturing
3346	Manufacturing and reproducing magnetic and optical media
4234	Professional and commercial equipment and supplies, merchant wholesalers
5416	Management, scientific, and technical consulting services

Level III industries

3241	Petroleum and coal products manufacturing
3253	Pesticide, fertilizer, and other agricultural chemical manufacturing
3255	Paint, coating, and adhesive manufacturing
3259	Other chemical product and preparation manufacturing
3336	Engine, turbine, and power transmission equipment manufacturing
3339	Other general purpose machinery manufacturing
3353	Electrical equipment manufacturing
3369	Other transportation equipment manufacturing
4861	Pipeline transportation of crude oil
4862	Pipeline transportation of natural gas
4869	Other pipeline transportation
5171	Wired telecommunications carriers
5172	Wireless telecommunications carriers (except satellite)
5173	Telecommunications resellers
5174	Satellite telecommunications
5211	Monetary authorities, central bank
5232	Securities and commodity exchanges
5511	Management of companies and enterprises
5612	Facilities support services
8112	Electronic and precision equipment repair and maintenance
