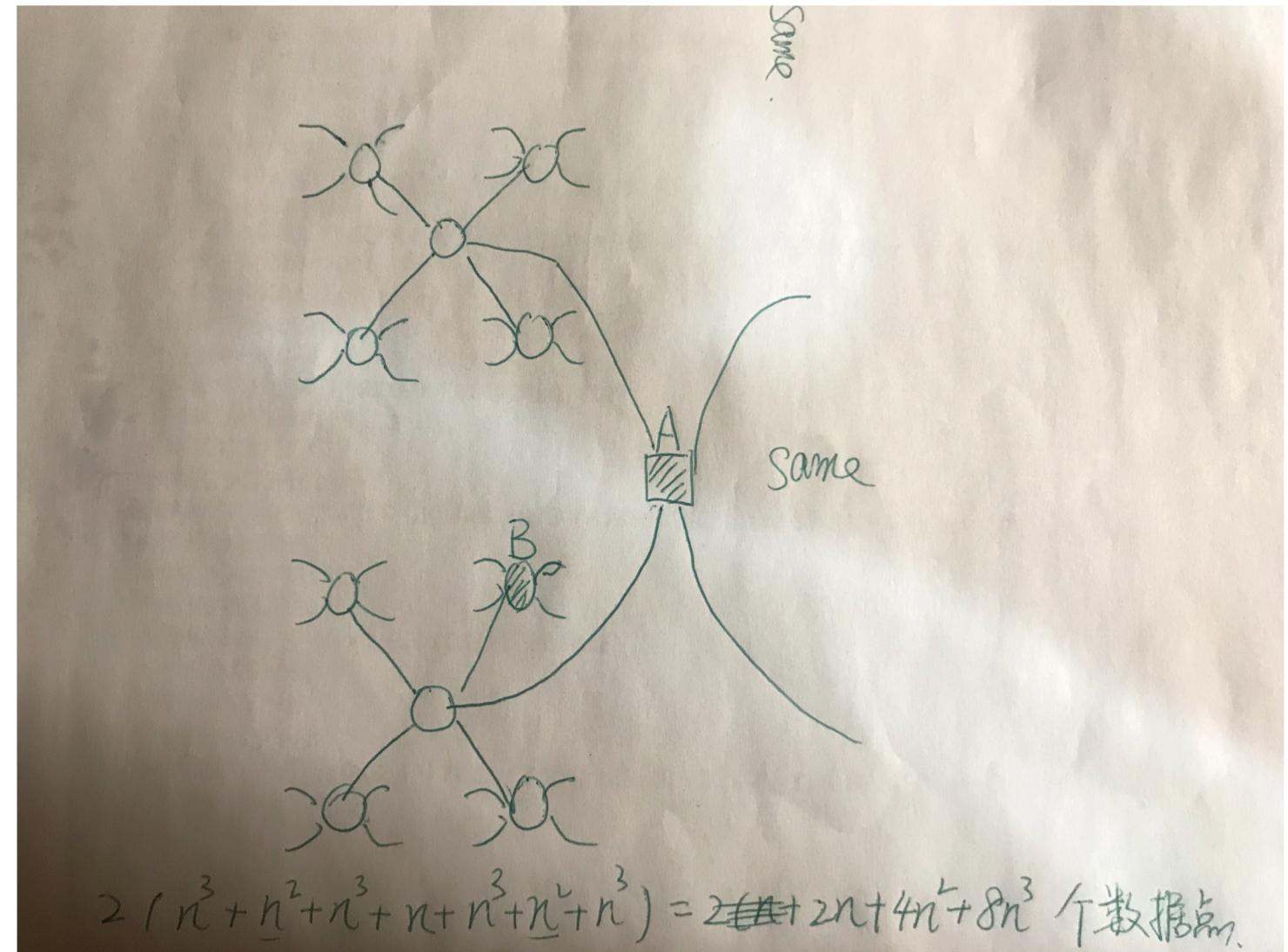


汇报190821

梁晨

数据结构

- 图示为n=2分叉的时候
- 实际取了n=5分叉
- 即数据点有 $1110+1$ 个
- 但是因为有很多重复（比如A和B点经常是一样的）
- 所以基本上去除重复后节点在200个左右。



依旧迷茫的产业分类

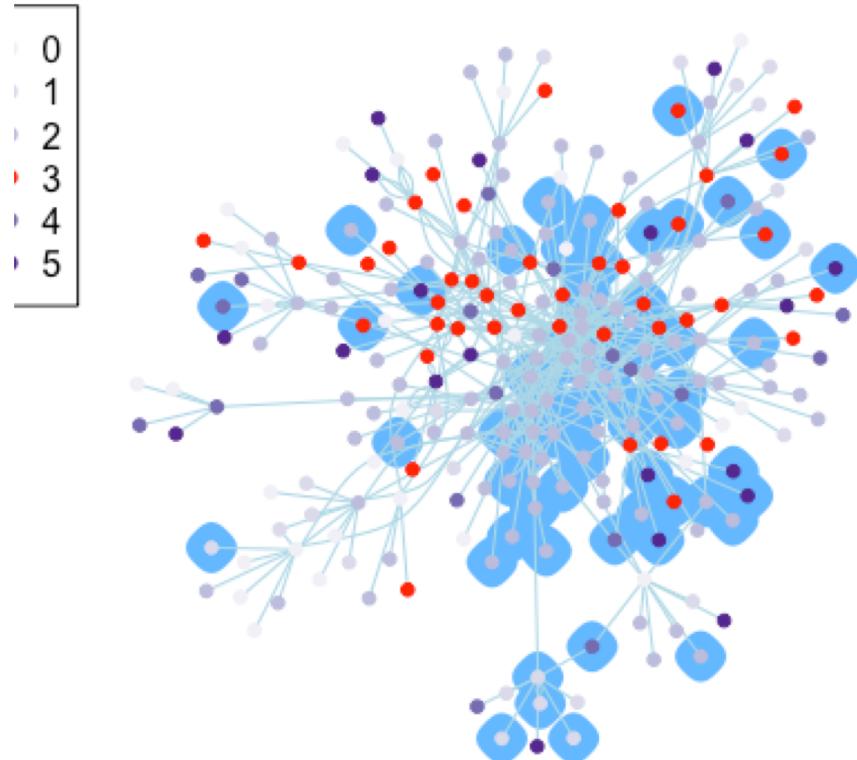
```
#### FOR Automobiles
type0=c("#N/A N/A")
type1=c("Materials", "Energy", "Utilities")
type2=c("Technology Hardware & Equipment", "Semiconductors & Semiconductor",
       "Capital Goods")
type3=c("Automobiles & Components")
type4=c("transportation", "Software & Services",
       "Consumer Durables & Apparel",
       "Commercial & Professional Services", "Household & Personal Products",
       "Consumer Services", "Retailing")
type5=c("Insurance", "Media & Entertainment",
       "Food & Staples Retailing",
       "Food, Beverage & Tobacco", "Real Estate", "Banks",
       "Telecommunication Services",
       "Health Care Equipment & Services",
       "Diversified Financials")
```

```
#### FOR HUAWEI
type0=c("#N/A N/A")
type1=c("Materials", "Energy", "Utilities")
type2=c("Technology Hardware & Equipment", "Semiconductors & Semiconductor",
       "Capital Goods")
type3=c("Software & Services", "Telecommunication Services",
       "Consumer Durables & Apparel")
type4=c("Automobiles & Components", "transportation",
       "Commercial & Professional Services", "Household & Personal Products",
       "Health Care Equipment & Services", "Consumer Services",
       "Retailing")
type5=c("Insurance", "Media & Entertainment",
       "Food & Staples Retailing",
       "Food, Beverage & Tobacco", "Real Estate", "Banks",
       "Diversified Financials")
```

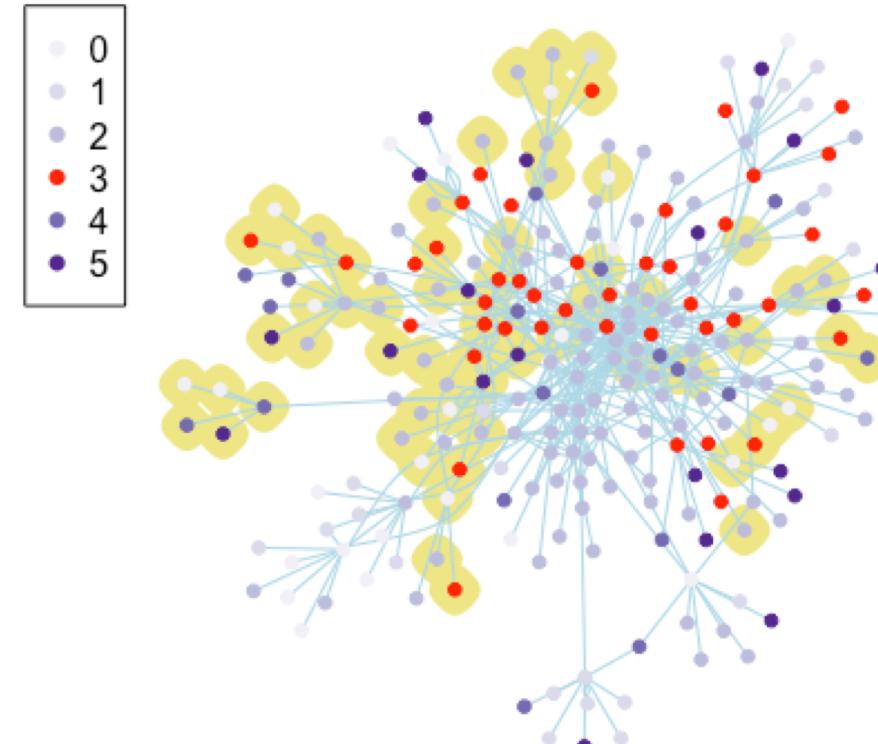
		Huawei	GM	Hyundai	SAIC	Toyota	Volkswagen
20190821		CN	US	KR	CN	JP	DE
平均最短路径	本国企业	4.03	4.03	4.29	4.24	3.79	3.65
	美国企业	3.80		4.35	4.20	3.87	3.98
供应链方差	本国企业	1.45	1.13	1.34	1.43	1.10	1.30
	美国企业	1.16		1.31	1.11	0.92	1.08
给定某国企业， 其与自己国家有 联系的概率	本国企业	91.30%	77.78%	97.50%	80.85%	95.89%	81.25%
	美国企业	63.08%		69.05%	64.71%	56.10%	65.67%

- 感觉平均最短路径没有描述出想要描述的那种集聚的感觉，尤其是 Volkswagen 跟 GM 在国家分布上其实区别很大

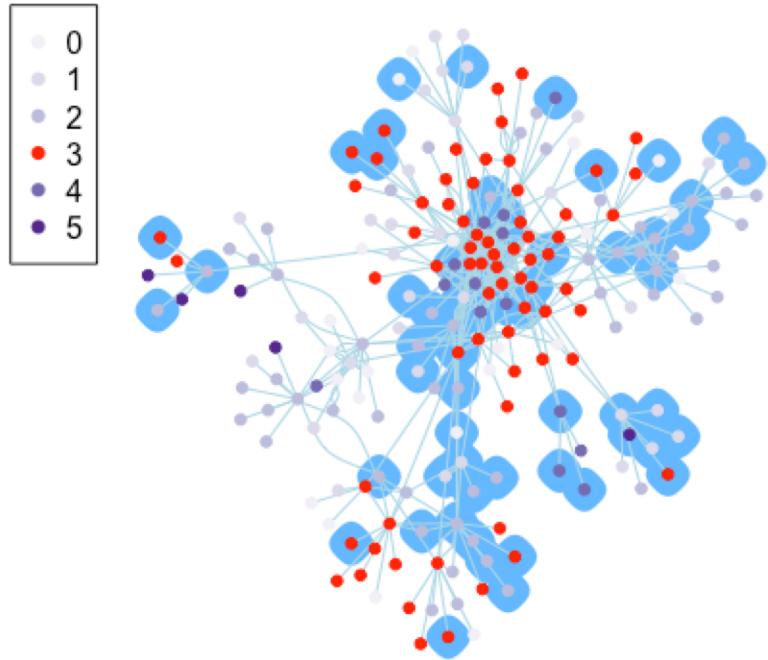
Huawei GSC by Sector (US Marked), 2019



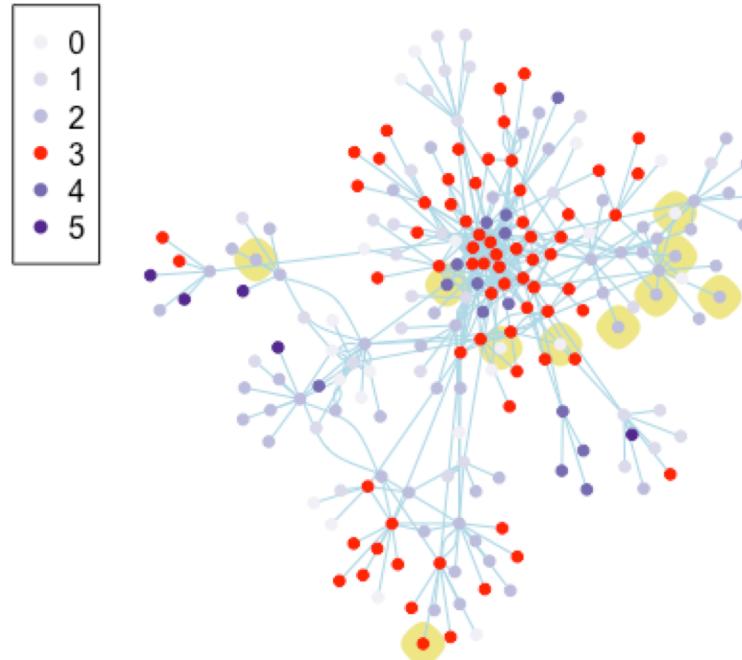
Huawei GSC by Sector (China Marked), 2019



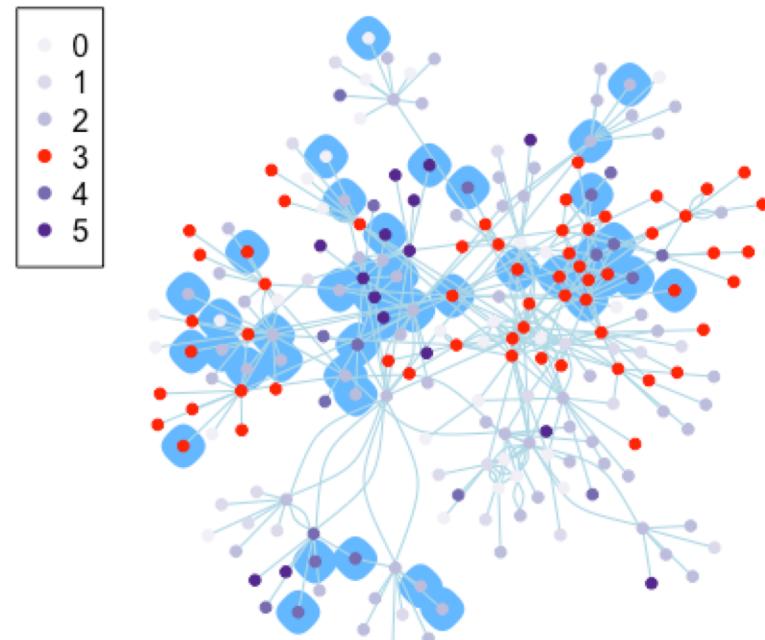
GM GSC by Sector (US Marked), 2019



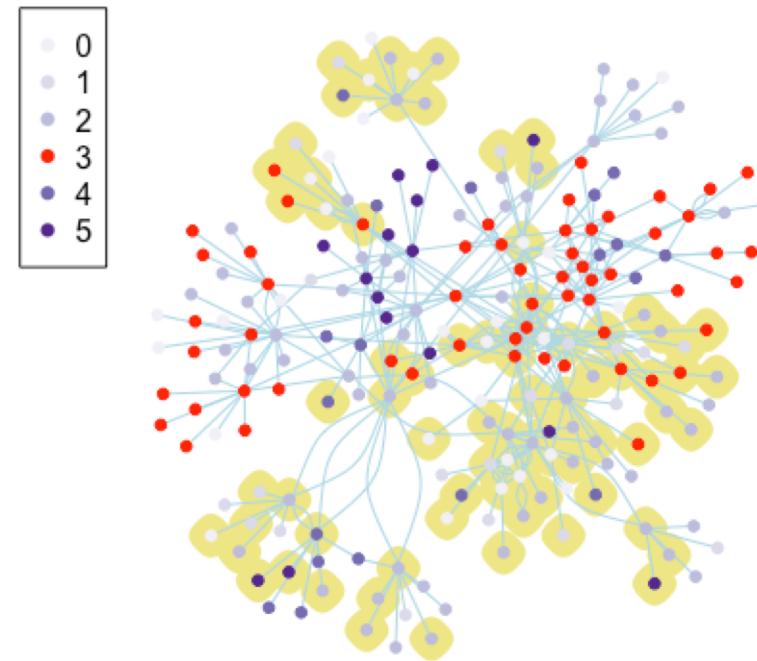
GM GSC by Sector (China Marked), 2019



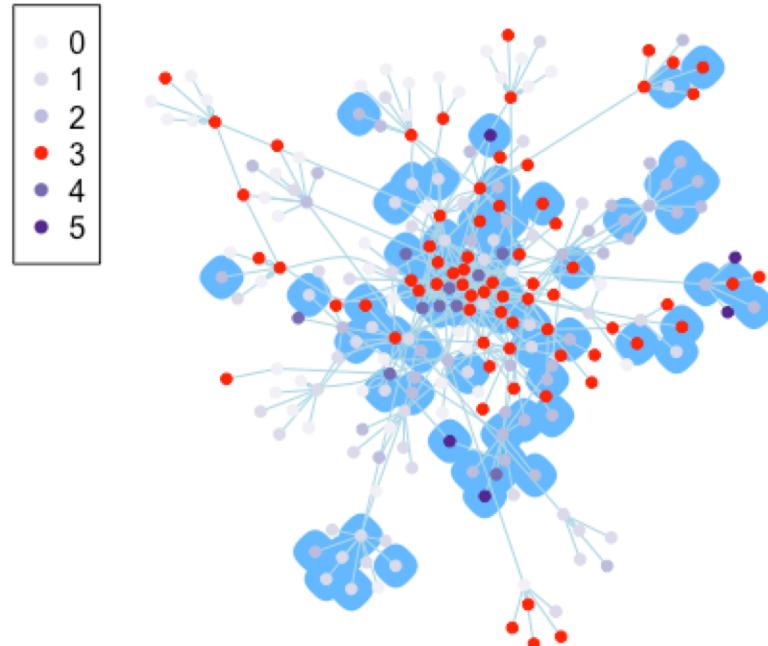
Hyundai GSC by Sector (US Marked), 2019



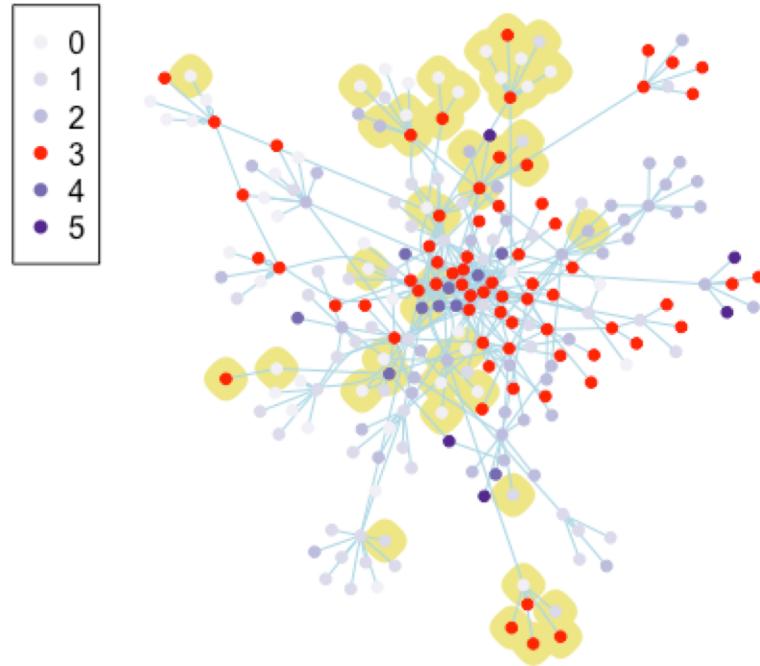
Hyundai GSC by Sector (KR Marked), 2019



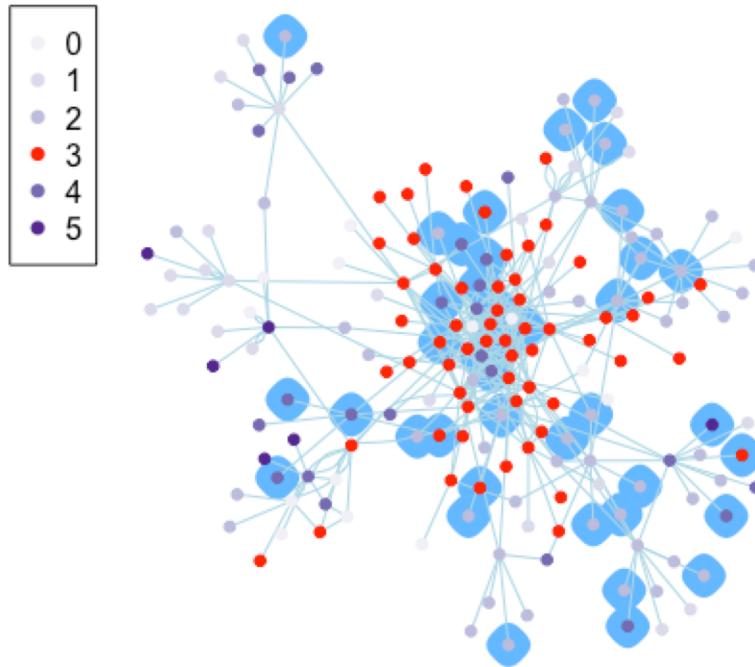
SAIC GSC by Sector (US Marked), 2019



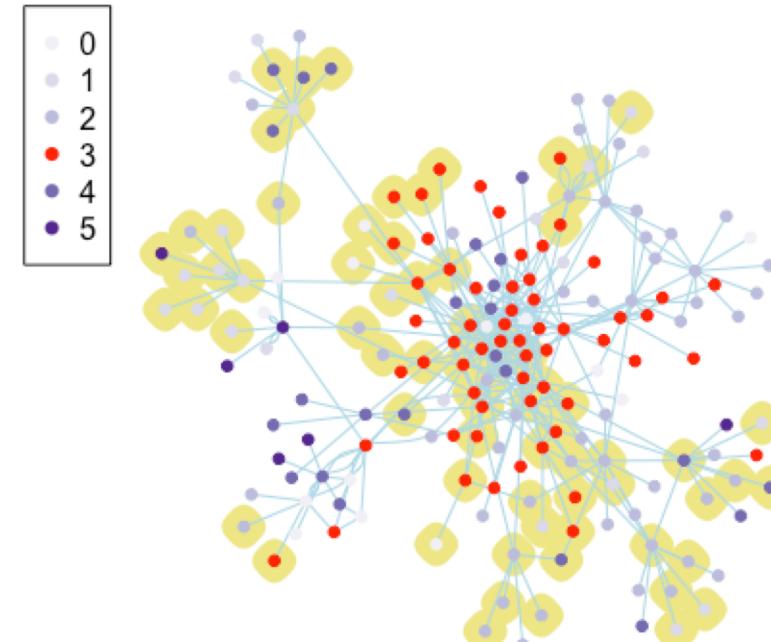
SAIC GSC by Sector (CN Marked), 2019



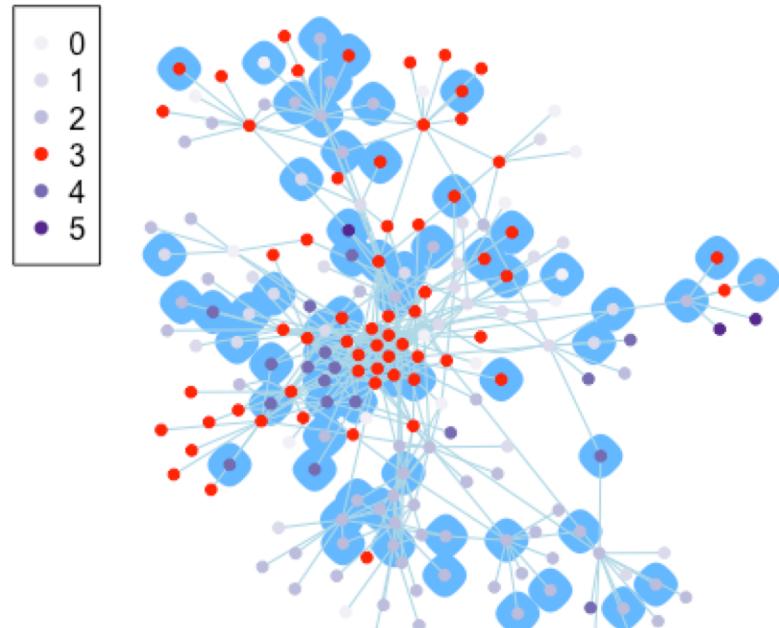
Toyota GSC by Sector (US Marked), 2019



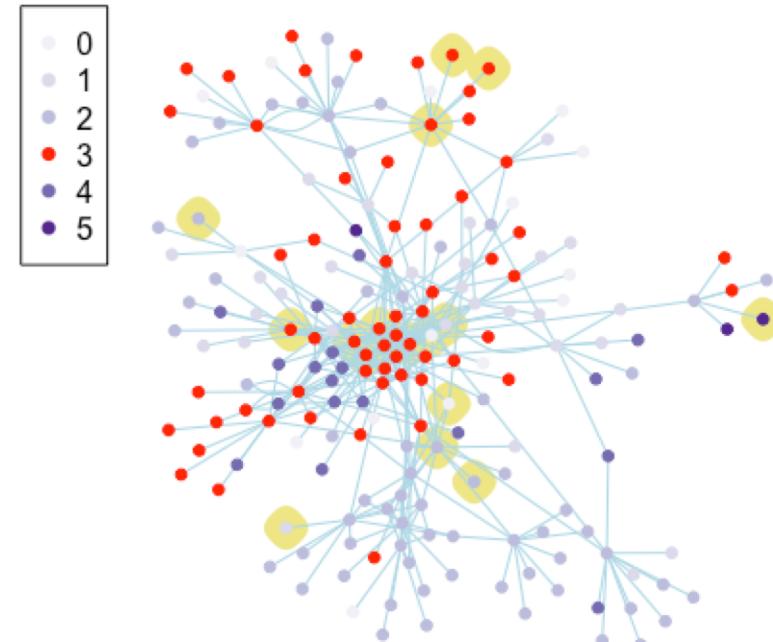
Toyota GSC by Sector (JP Marked), 2019



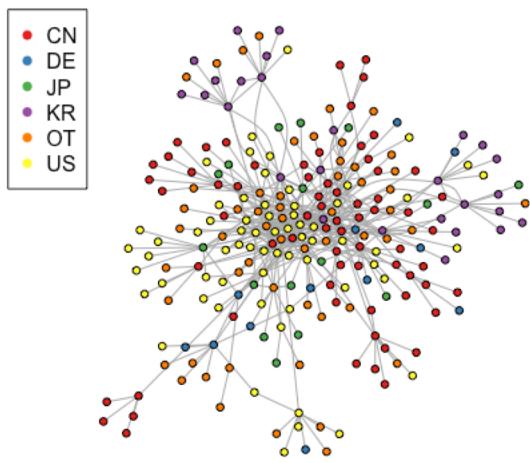
Volkswagen GSC by Sector (US Marked), 2019



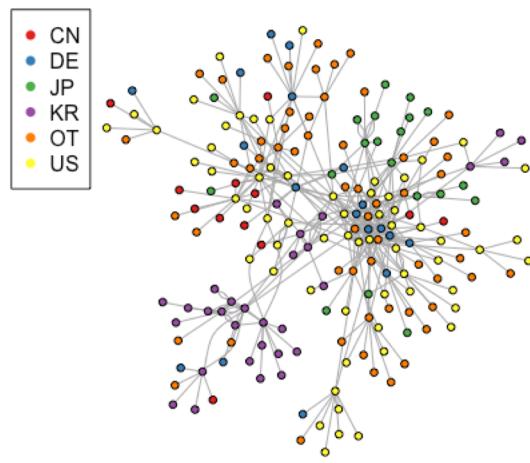
Volkswagen GSC by Sector (DE Marked), 2019



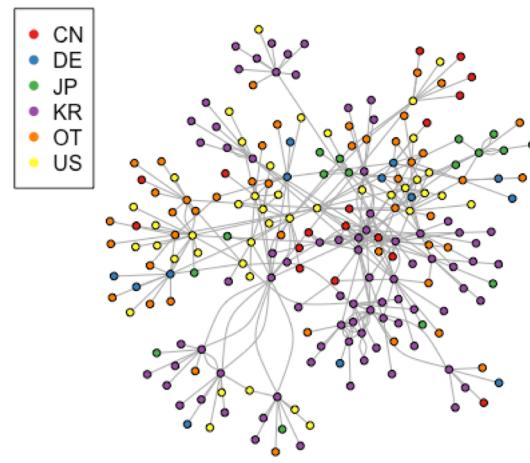
Huawei GSC by Country



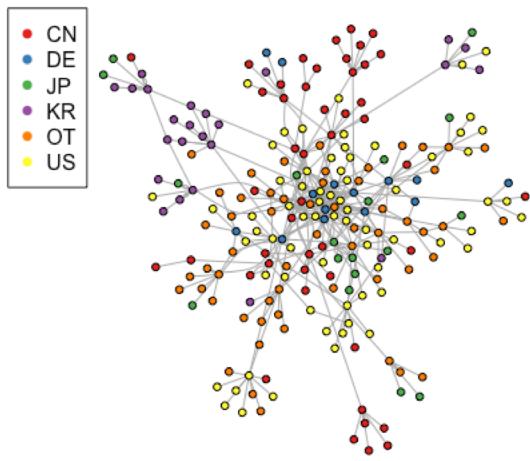
GM GSC by Country



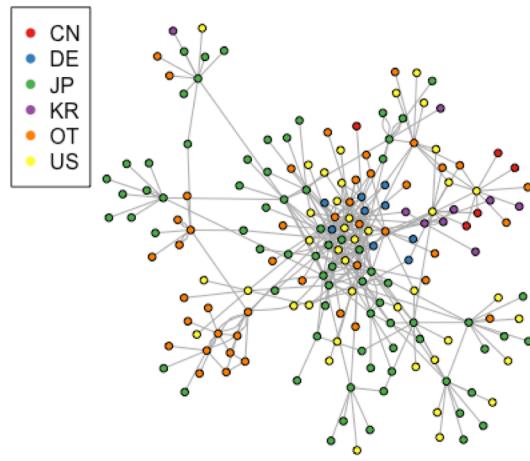
Hyundai GSC by Country



SAIC GSC by Country



Toyota GSC by Country



Volkswagen GSC by Country

