

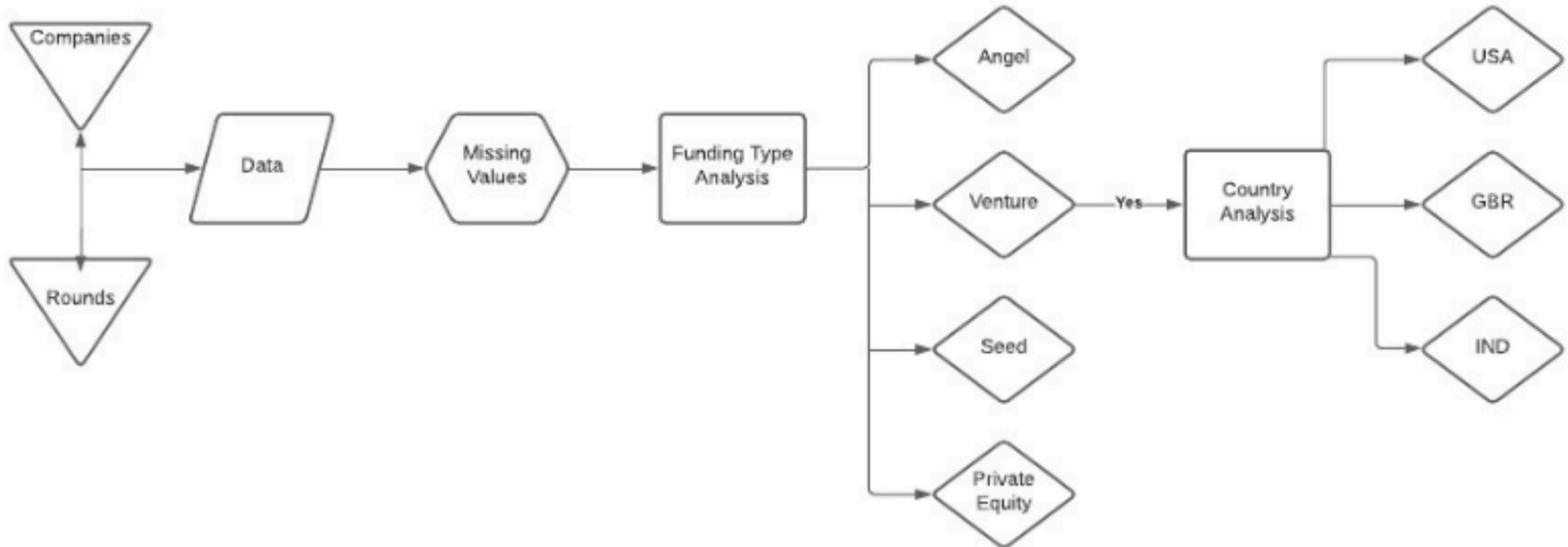
INVESTMENT ASSIGNMENT SUBMISSION

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Investment analysis for SparkFunds

Using data analysis in decision making process, we can recommend companies that seem to fit the constraints on the investment . In this project, several datasets will be cleaned and merged for in depth analysis. The data will be visualized to explain our findings. Our suggestions are based on

Flow Chart



Funding Analysis

Funding Analysis

```
In [44]: master_df = pd.read_csv('master_df.csv', engine='python')
```

```
In [45]: master_df.head()
```

Out[45]:

	permalink	funding_round_type	raised_amount_usd	name	category_list	status	country_code
0	/organization/-fame	venture	10000000.0	#fame	Media	operating	IND
1	/organization/-qounter	seed	700000.0	:Qounter	Application Platforms Real Time Social Network...	operating	USA
2	/organization/0-6-com	venture	2000000.0	0-6.com	Curated Web	operating	CHN
3	/organization/01games-technology	undisclosed	41250.0	01Games Technology	Games	operating	HKG
4	/organization/Online-biomedical-inc	seed	43360.0	Online Biomedical Inc.	Biotechnology	operating	CAN

```
In [46]: df = master_df.loc[(master_df['funding_round_type'] == 'venture') | (master_df['funding_round_type'] == 'angel')
| (master_df['funding_round_type'] == 'seed') | (master_df['funding_round_type'] == 'private_equity')]
```

Describe the data

```
In [47]: df.describe()
```

Out[47]:

	raised_amount_usd
count	7.512400e+04
mean	9.519475e+06
std	7.792778e+07
min	0.000000e+00
25%	4.705852e+05
50%	2.000000e+06
75%	8.000000e+06
max	1.760000e+10

Compare mean and median by investment type

```
In [50]: #Compare Mean and Median
df.groupby(['funding_round_type']).median()
```

Out[50]:

	raised_amount_usd
funding_round_type	
angel	414906.0
private_equity	20000000.0
seed	300000.0
venture	5000000.0

```
In [51]: df.groupby(['funding_round_type']).mean()
```

Out[51]:

	raised_amount_usd
funding_round_type	
angel	9.715739e+05
private_equity	7.393849e+07
seed	7.477937e+05
venture	1.172422e+07

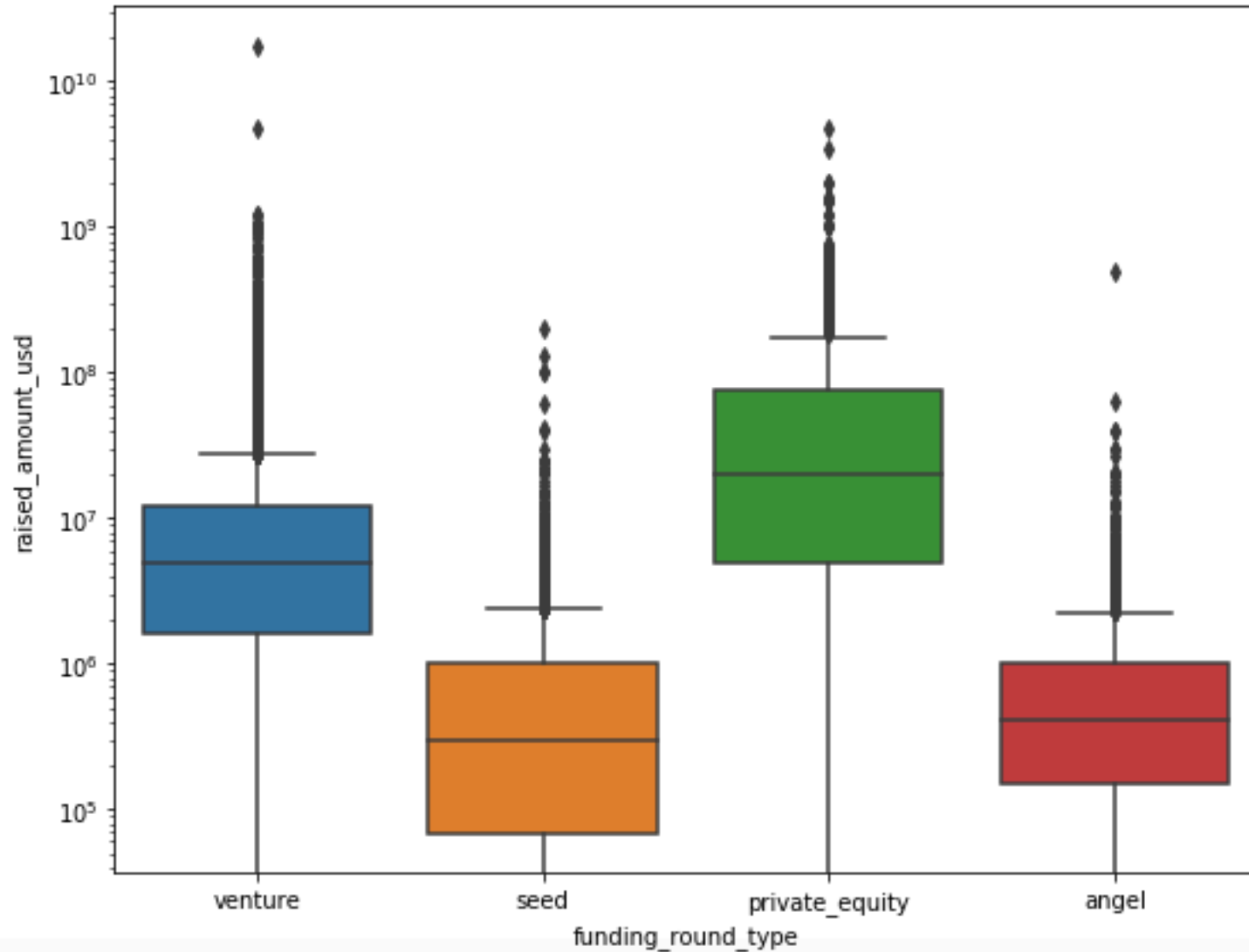
Median by investment type

```
In [52]: #Most $$ invested - Investment type
df.groupby('funding_round_type')['raised_amount_usd'].median().sort_values(ascending=False)

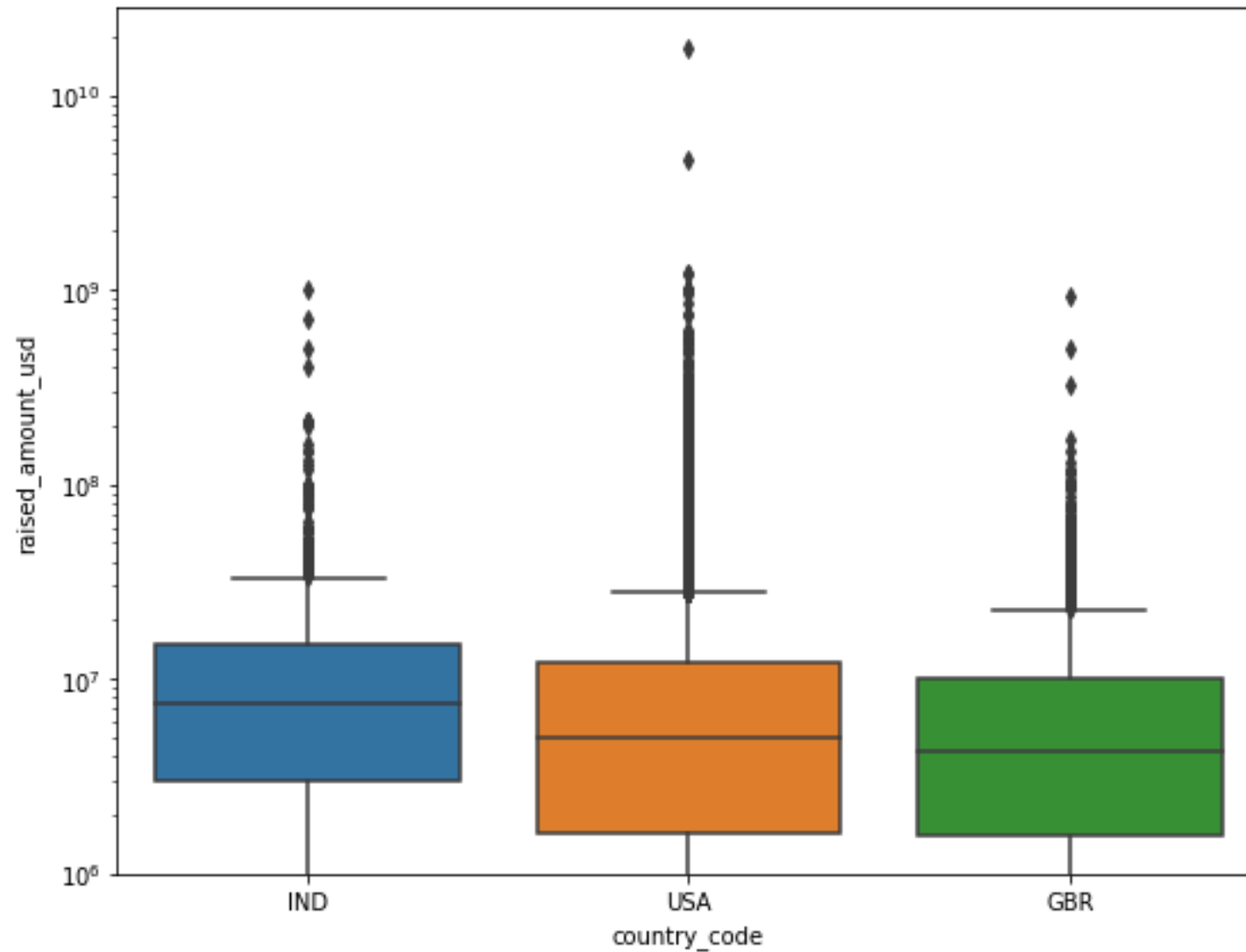
Out[52]: funding_round_type
private_equity      20000000.0
venture             5000000.0
angel               414906.0
seed                300000.0
Name: raised_amount_usd, dtype: float64
```

Venture is the best investment for SparkFunds. The median value of \$5 million is in the lower range of the desired investment amount.

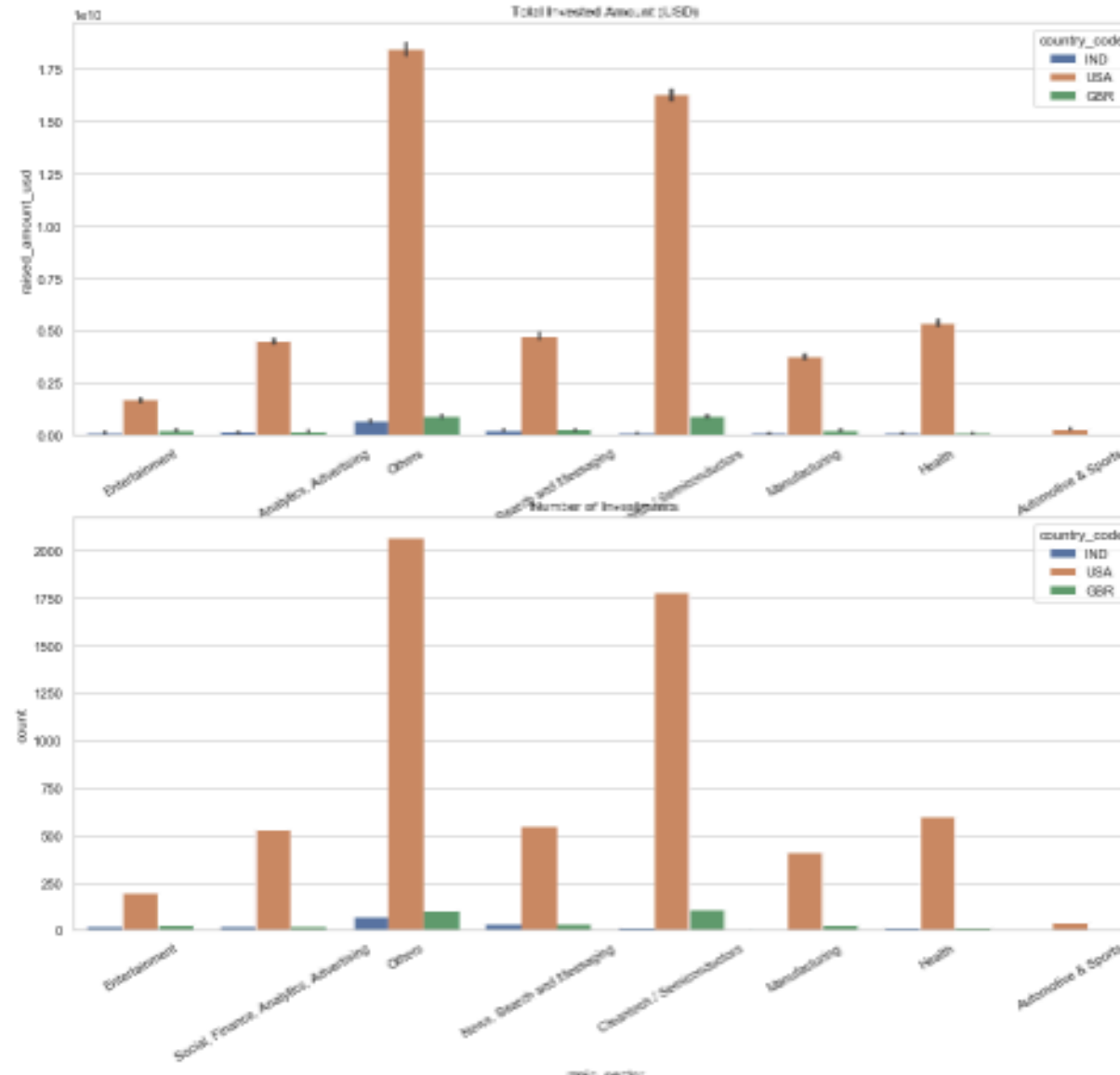
Raised Amount (USD) per Investment Type



Raised amount (USD) by country



Main Sectors distribution, Amount Raised (USD)



Conclusion

Venture capital is the best way for SparkFunds to invest.
Companies recommendations as follows:

LeadPages	operating	USA	Software	Others
Verimatrix	operating	USA	Software	Others
Verimatrix	operating	USA	Software	Others
Acumen Holdings	operating	USA	E-Commerce	Others
GridApp Systems	acquired	USA	Software	Others
Stem	operating	USA	Enterprise Software	Others
XenSource	operating	USA	Software	Others
Zerto	operating	USA	Enterprise Software	Others
WiChorus	acquired	USA	Web Hosting	Others
CrossChx	operating	USA	Software	Others

Green Biologics	operating	GBR	Biotechnology	Cleantech / Semiconductors
Flowline	operating	GBR	Clean Technology	Cleantech / Semiconductors
Ignis Energy	operating	GBR	Clean Technology	Cleantech / Semiconductors
Nanotech Semiconductor	operating	GBR	Semiconductors	Cleantech / Semiconductors
Exco InTouch	operating	GBR	Biotechnology	Cleantech / Semiconductors
Elixent	operating	GBR	Semiconductors	Cleantech / Semiconductors
Onyvax	operating	GBR	Biotechnology	Cleantech / Semiconductors
XMOS	operating	GBR	Semiconductors	Cleantech / Semiconductors
EUSA Pharma	acquired	GBR	Biotechnology	Cleantech / Semiconductors
Phosphate Therapeutics	operating	GBR	Biotechnology	Cleantech / Semiconductors

Vriti Infocom	operating	IND	Education	Others
Ameyo	operating	IND	Software	Others
Hippocampus Learning Centres	operating	IND	Education	Others
Appsdaily Solutions	operating	IND	Software	Others
Myntra	acquired	IND	E-Commerce	Others
ItzCash Card Ltd.	operating	IND	Gift Card	Others
CommonFloor	operating	IND	Real Estate	Others
iPolicy Networks	operating	IND	Security	Others
Tejas Networks India	operating	IND	Web Hosting	Others
Voylla Retail Pvt. Ltd.	operating	IND	E-Commerce	Others