An Analysis of B Corp Impact Data Trends

What are B Corps?

• "B Corporations are businesses that meet the highest standards of verified social and environmental performance, public transparency, and legal accountability to balance profit and purpose."

• Must be certified and re-certified in 5 impact areas, creating a lot of impact data...



Impact Assessment

- 5 broad impact areas, each contributes to overall "Impact score"
- Companies must be re-certified every 3 years
- Re-assessment creates
 opportunity to assess
 trends in assessment and
 assessment data overall,
 leading to interesting
 questions...



Guiding Questions

- 1. What is the relative influence of each impact area on the overall impact score?
- 2. Does a company's impact score improve or worsen over the course of their tenure of certification?
- 3. What industries tend to improve their impact score over multiple certification cycles?
- 4. What industries tend to have higher impact scores?
- 5. Is there a correlation between impact score and profit made for certified companies?

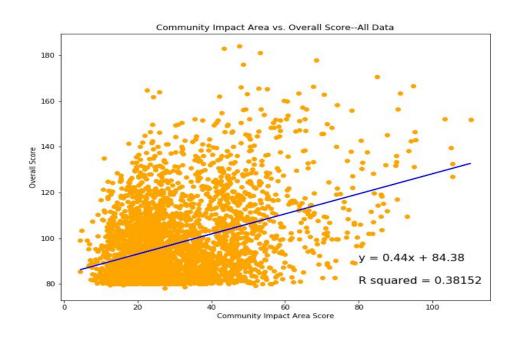
```
#Filter out NaNs from impact area customers series, run regression with it as np array
 customers array = bcorp US cleaned['impact area customers'].to numpy(dtype = int)
 customers array
 overallscore array = bcorp US cleaned['overall score'].to numpy(dtype = int)
 overallscore array
 nan array cust = np.isnan(customers array)
 not nan array cust = ~ nan array cust
 customers nonan = customers array[not nan array cust]
 customers nonan
 #attempt regression
  (slope, intercept, rvalue, pvalue, stderr) = sts.linregress(customers nonan, overallscore array)
 rvalue
 regress values customers = customers nonan * slope + intercept
 line eq customers = "y = " + str(slope) + "x + " + str(round(intercept,2))
 line eq customers
```

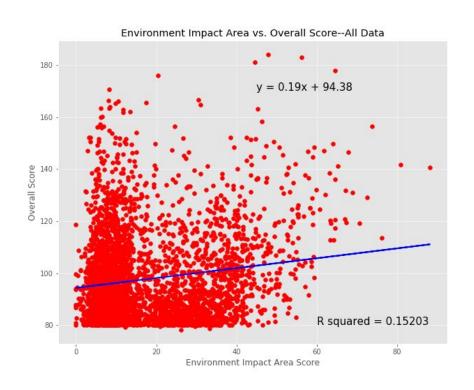


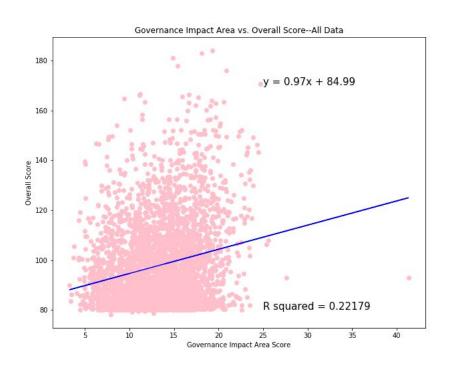
^{&#}x27;y = 2.450811931862826e-09x + 97.61'

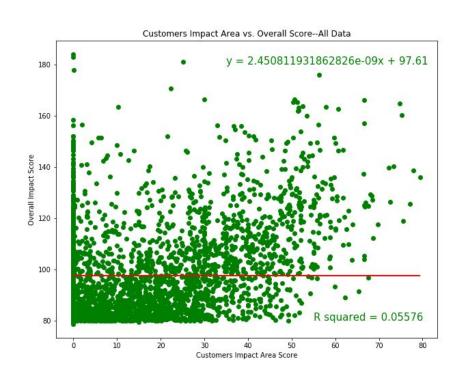
```
▶ bcorp US cleaned = bcorp US.drop(['website', 'b corp profile', 'description',
                                         'industry', 'industry_category', 'products_and_services',
                                         'country', 'state', 'city', 'sector', 'size', 'impact area commun
                                        'impact area customers na score', 'impact area environment na scor
                                        'impact area workers na score'], axis = 1)
  bcorp US cleaned.head()
       company name date first certified date certified current status assessment year overall score impact area commu
       Heather Paulsen
                              12/30/2015
                                           12/19/2017
                                                           certified
                                                                              2017
                                                                                           115.0
             Consulting
        Heather Paulsen
                              12/30/2015
                                           12/30/2015
                                                           certified
                                                                              2015
                                                                                            90.5
             Consulting
            Bark Media
                              7/25/2018
                                            7/25/2018
                                                            certified
                                                                              2018
                                                                                            90.5
    10 Kosmenko & Co.
                              8/30/2016
                                            11/7/2019
                                                            certified
                                                                              2019
                                                                                           120.3
   11 Kosmenko & Co.
                              8/30/2016
                                            8/30/2016
                                                           certified
                                                                              2016
                                                                                           116.7
   5 rows × 99 columns
M ned = bcorp US cleaned.drop([col for col in bcorp US cleaned.columns if 'ia community it' in col],a
  ned.head()
```

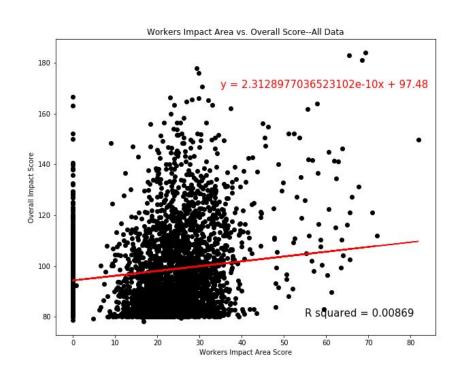
overall_score
-0.154907
1.000000
0.381523
0.372143
0.152033
0.221790
0.221914



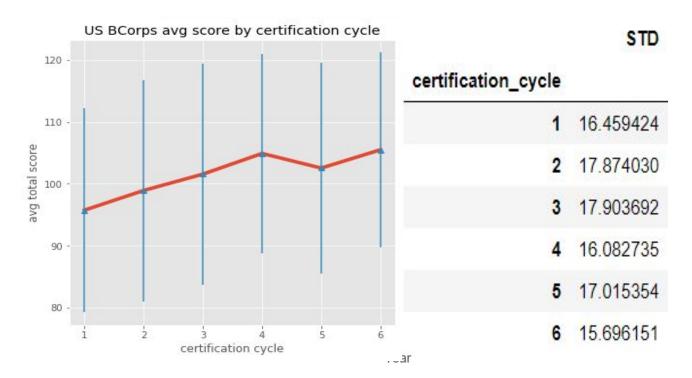




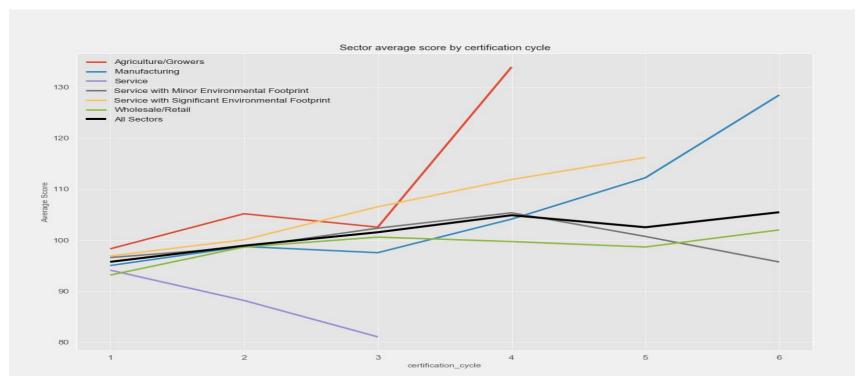




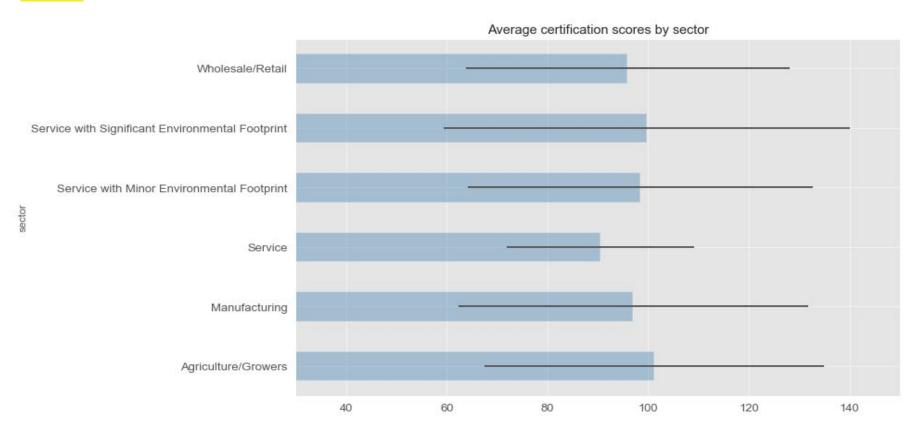
Q2 - Does a company's impact score improve or worsen over the course of their tenure of certification?



Q3 -What industries tend to improve their impact score over multiple certification cycles?

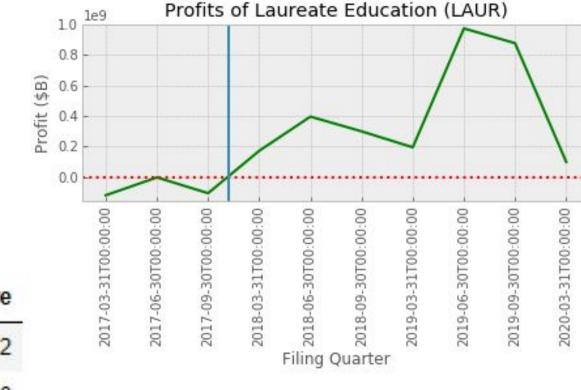


Q3- What industries tend to have higher impact scores?



Profits of Laureate Education Case Study

- B-Certified since 2015
- IPO Jan. 2017
- Re-certified in Dec. 2017



Assessment Year Overall Score
2017 104.2
2015 95.8

Key takeaways

- Companies seeking to improve their overall impact score may want to focus on the community and customers impact areas as they are most highly correlated with overall impact score.
- ***takeaway from nathan's slides***

Possible connection between impact scores and profits