



Crowdfunding Kickstarter Data Analysis & Dashboard

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- Tools Used: Excel | SQL | Tableau | Power BI

Business Problem & Objective

- **Business Problem:**
- Crowdfunding platforms generate large amounts of raw data (Epoch timestamps, currencies) that make trend analysis difficult.
- **Objective:**
- To clean, model, and visualize crowdfunding data for insights into project success, funding amounts, and backer engagement.

Data Sources

- Projects.xlsx - Details of all crowdfunding projects (goal, amount raised, dates).
- Category.xlsx - Project categories for analysis.
- Location.xlsx - Geographic location data for projects.
- Creator.xlsx - Information about project creators.
- Projects.sql- SQL file containing project database setup or queries
- Excel - Data cleaning and preparation
- Power BI - Dashboard building and reporting
- Tableau - Data visualization and analysis
- SQL - Data querying and joins

Data Preparation Steps

1. Convert Epoch time → Natural date
2. Build Calendar table with fiscal metrics
3. Create data model linking all files
4. Convert Goal to USD using static rate
5. Build KPIs in Power BI/Tableau

Data transformation epoch to natural time Example

created_at	deadline	updated_at	state_changed_at
1485972639	1488571200	1488571201	1488571201
1427846948	1430507319	1430507320	1430507320
1457479696	1460073915	1460073915	1460073915
1343252842	1346342564	1397791317	1346342564
1427808214	1428676182	1428676219	1428676219
1487375929	1491605880	1491605880	1491605880
1476453763	1482022800	1482022804	1482022804
1416449727	1419459322	1419459325	1419459325
1291573834	1295303820	1397760030	1295303820
1425158544	1427804231	1427804231	1427804231
1315458608	1320080340	1463680618	1320080343
1353103044	1366578085	1397803254	1366578087

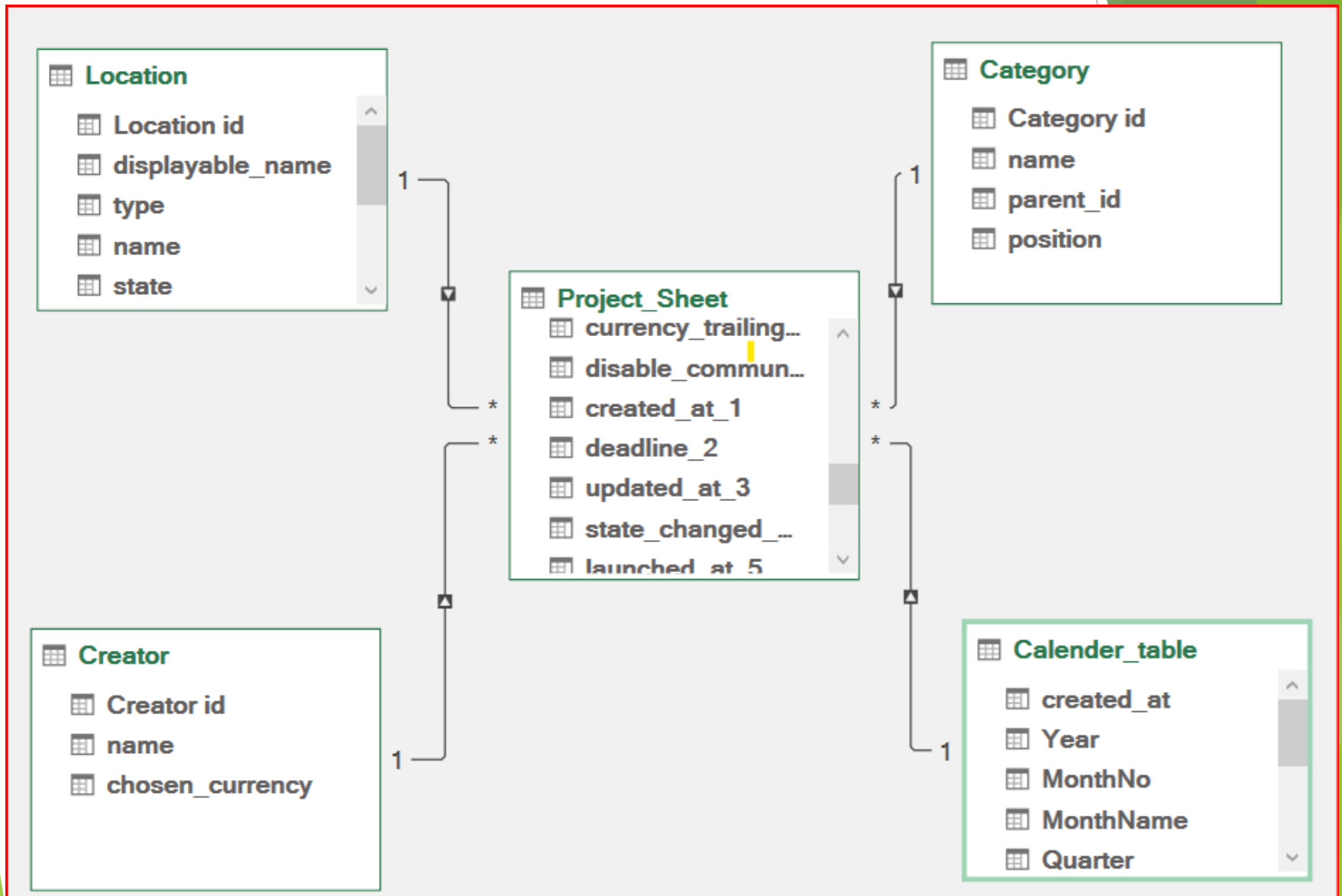


Created_at	Deadline	Updated_at	State_changed_at
2/1/2017	3/3/2017	3/3/2017	3/3/2017
4/1/2015	5/1/2015	5/1/2015	5/1/2015
3/8/2016	4/8/2016	4/8/2016	4/8/2016
7/25/2012	8/30/2012	4/18/2014	8/30/2012
3/31/2015	4/10/2015	4/10/2015	4/10/2015
2/17/2017	4/7/2017	4/7/2017	4/7/2017
10/14/2016	12/18/2016	12/18/2016	12/18/2016
11/20/2014	12/24/2014	12/24/2014	12/24/2014
12/5/2010	1/17/2011	4/17/2014	1/17/2011
2/28/2015	3/31/2015	3/31/2015	3/31/2015
9/8/2011	10/31/2011	5/19/2016	10/31/2011
11/16/2012	4/21/2013	4/18/2014	4/21/2013

Calendar Table Example

Created_at ▾	Year ▾	Month ▾	Month ▾	Quarter ▾	Year_Month ▾	Day_Number ▾	Day_Name ▾	Financial_Quarter ▾	Financial_Month ▾
2/1/2017	2017	2	February	Q1	2017-Feb	4	Wednesday	FQ4	FM11
4/1/2015	2015	4	April	Q2	2015-Apr	4	Wednesday	FQ1	FM1
3/8/2016	2016	3	March	Q1	2016-Mar	3	Tuesday	FQ4	FM12
7/25/2012	2012	7	July	Q3	2012-Jul	4	Wednesday	FQ2	FM4
3/31/2015	2015	3	March	Q1	2015-Mar	3	Tuesday	FQ4	FM12
2/17/2017	2017	2	February	Q1	2017-Feb	6	Friday	FQ4	FM11
10/14/2016	2016	10	October	Q4	2016-Oct	6	Friday	FQ3	FM7
11/20/2014	2014	11	November	Q4	2014-Nov	5	Thursday	FQ3	FM8
12/5/2010	2010	12	December	Q4	2010-Dec	1	Sunday	FQ3	FM9
2/28/2015	2015	2	February	Q1	2015-Feb	7	Saturday	FQ4	FM11
9/8/2011	2011	9	September	Q3	2011-Sep	5	Thursday	FQ2	FM6
11/16/2012	2012	11	November	Q4	2012-Nov	6	Friday	FQ3	FM8
6/2/2016	2016	6	June	Q2	2016-Jun	5	Thursday	FQ1	FM3
1/5/2016	2016	1	January	Q1	2016-Jan	3	Tuesday	FQ4	FM10
2/14/2015	2015	2	February	Q1	2015-Feb	7	Saturday	FQ4	FM11
9/17/2013	2013	9	September	Q3	2013-Sep	3	Tuesday	FQ2	FM6
8/14/2015	2015	8	August	Q3	2015-Aug	6	Friday	FQ2	FM5
1/13/2015	2015	1	January	Q1	2015-Jan	3	Tuesday	FQ4	FM10
12/16/2015	2015	12	December	Q4	2015-Dec	4	Wednesday	FQ3	FM9
10/2/2014	2014	10	October	Q4	2014-Oct	5	Thursday	FQ3	FM7
8/13/2014	2014	8	August	Q3	2014-Aug	4	Wednesday	FQ2	FM5
7/30/2015	2015	7	July	Q3	2015-Jul	5	Thursday	FQ2	FM4
9/1/2014	2014	9	September	Q3	2014-Sep	2	Monday	FQ2	FM6
5/26/2016	2016	5	May	Q2	2016-May	5	Thursday	FQ1	FM2
9/8/2011	2011	9	September	Q3	2011-Sep	5	Thursday	FQ2	FM6

Data Model



KPIs & Insights

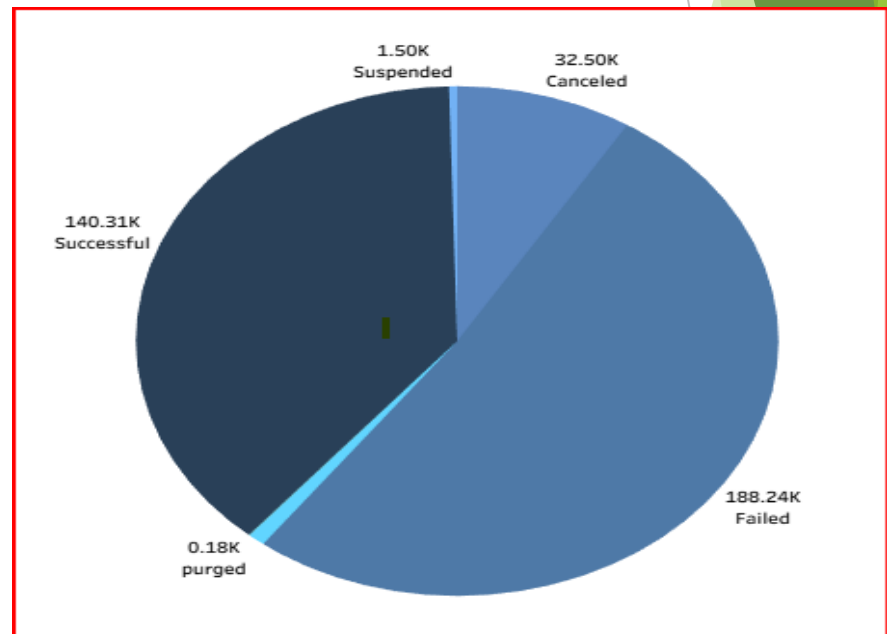
KPIs

Average number of days for projects	Backers	Amount Raised in USD	Total Projects
79	44.52M	3,856.12M	366K

Successful Projects Overview

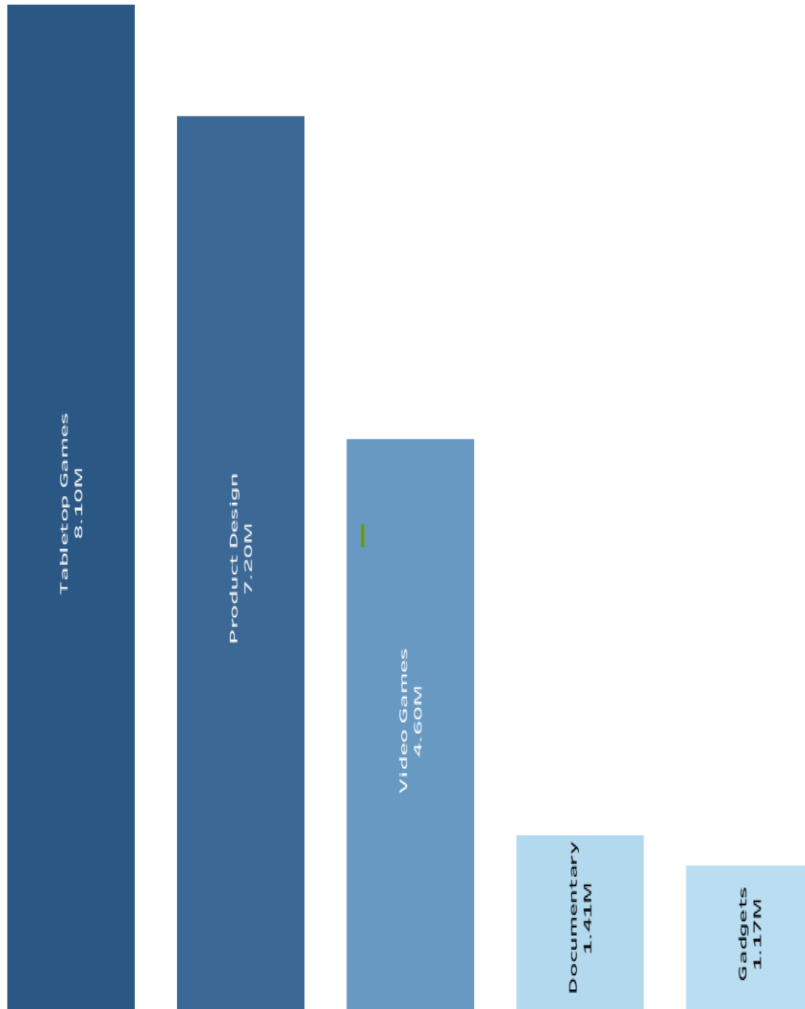
140K	80.43	39.97M	3bn
Total Project	Avg Days	Backers	Amount Raised

Top 10 projects by Category	
Product Design	22.3K
Tabletop Games	15.6K
Music	15.2K
Documentary	14.1K
Video Games	11.3K
Shorts	11.0K
Food	9.8K
Film & Video	9.3K
Fiction	8.3K
Art	7.9K

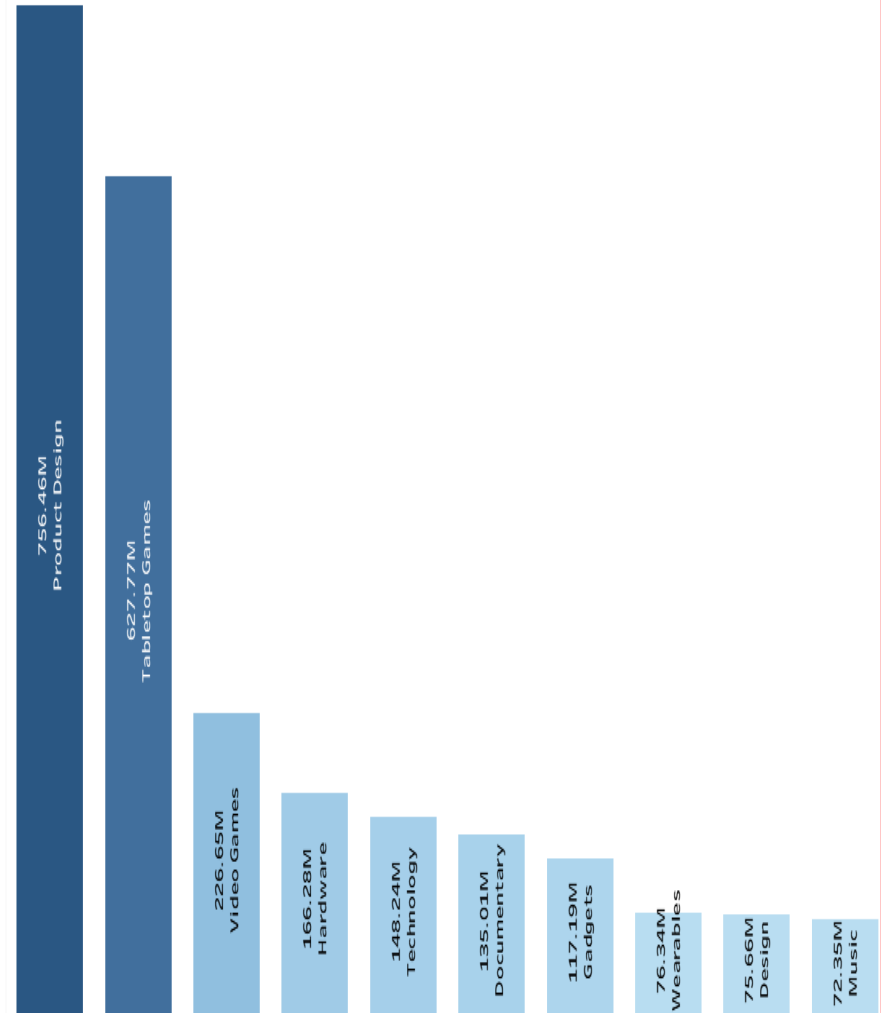


Top Performing Projects

Top 5 Projects Based on Backers

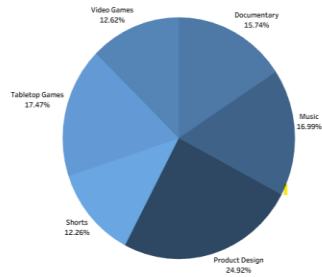


Top 10 Projects based on Amount Raised

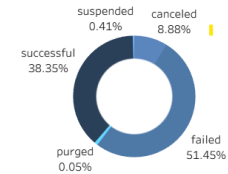


Success Percentage Analysis

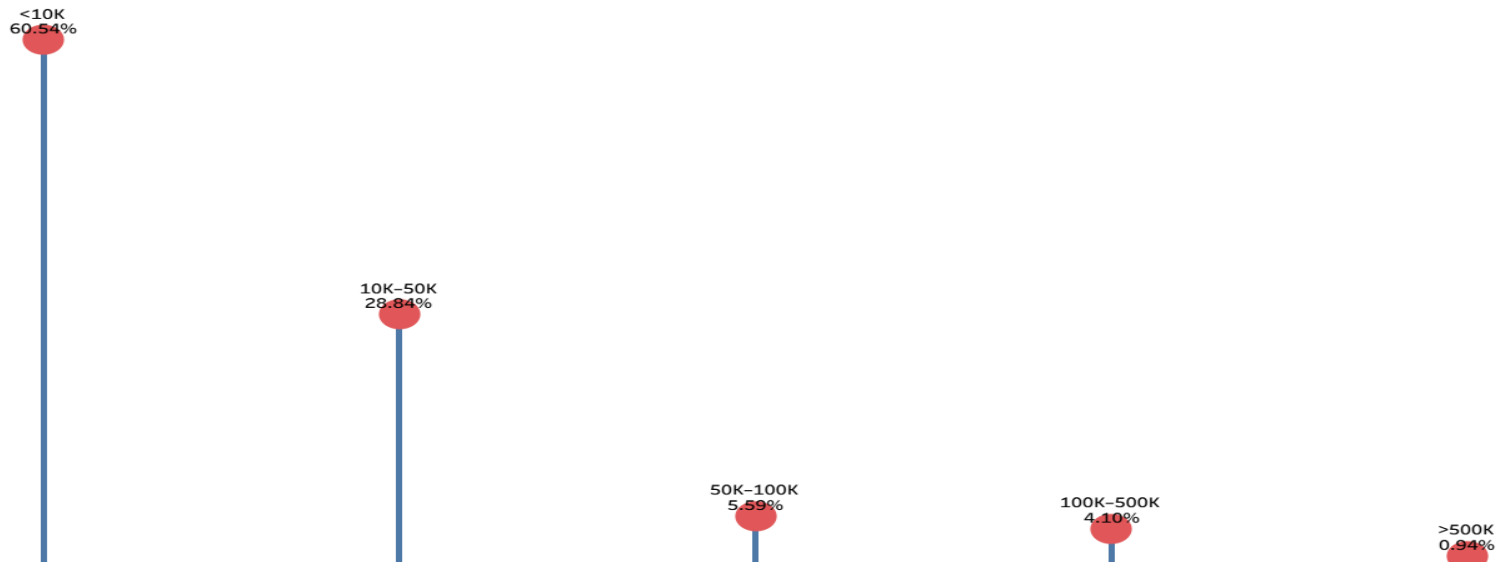
Percentage of Top 6 Projects by Category



Percentage of Projects by Outcome



Percentage of projects by Goal Range



SQL & DAX Highlights

```
273 • SELECT state, COUNT(*) AS projects FROM projects_dup GROUP BY state;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	state	projects		
▶	failed	188210		
	canceled	32487		
	suspended	1500		
	purged	178		
	live	3163		
	successful	140282		

```
1 Goal_Range =
2 SWITCH(
3     TRUE(),
4     projects[goal_usd] < 10000, "<10K",
5     projects[goal_usd] < 50000, "10K-50K",
6     projects[goal_usd] < 100000, "50K-100K",
7     projects[goal_usd] < 500000, "100K-500K",
8     projects[goal_usd] >= 500000, ">500K"
9 )
10
```

[illegible]

Key Findings

- Top Project categories: Product Design, Tabletop Games, Video Games, Hardware, Technology, Shorts, Documentary, Gadgets, Music
- Higher rates for projects with goals under \$10K
- Lower rates for projects with goals above or equal to \$500K
- Highest number of projects observed in the United States
- Lowest number of projects observed in the Togo, Seychelles, São Tomé and Príncipe
- Seasonal trend: Most projects Created in Q3 (July-September)
- Highest number of successful projects observed in Q1 (January-March)
- Lowest project success rate recorded in Q4 (October-December)

Conclusion & Next Steps

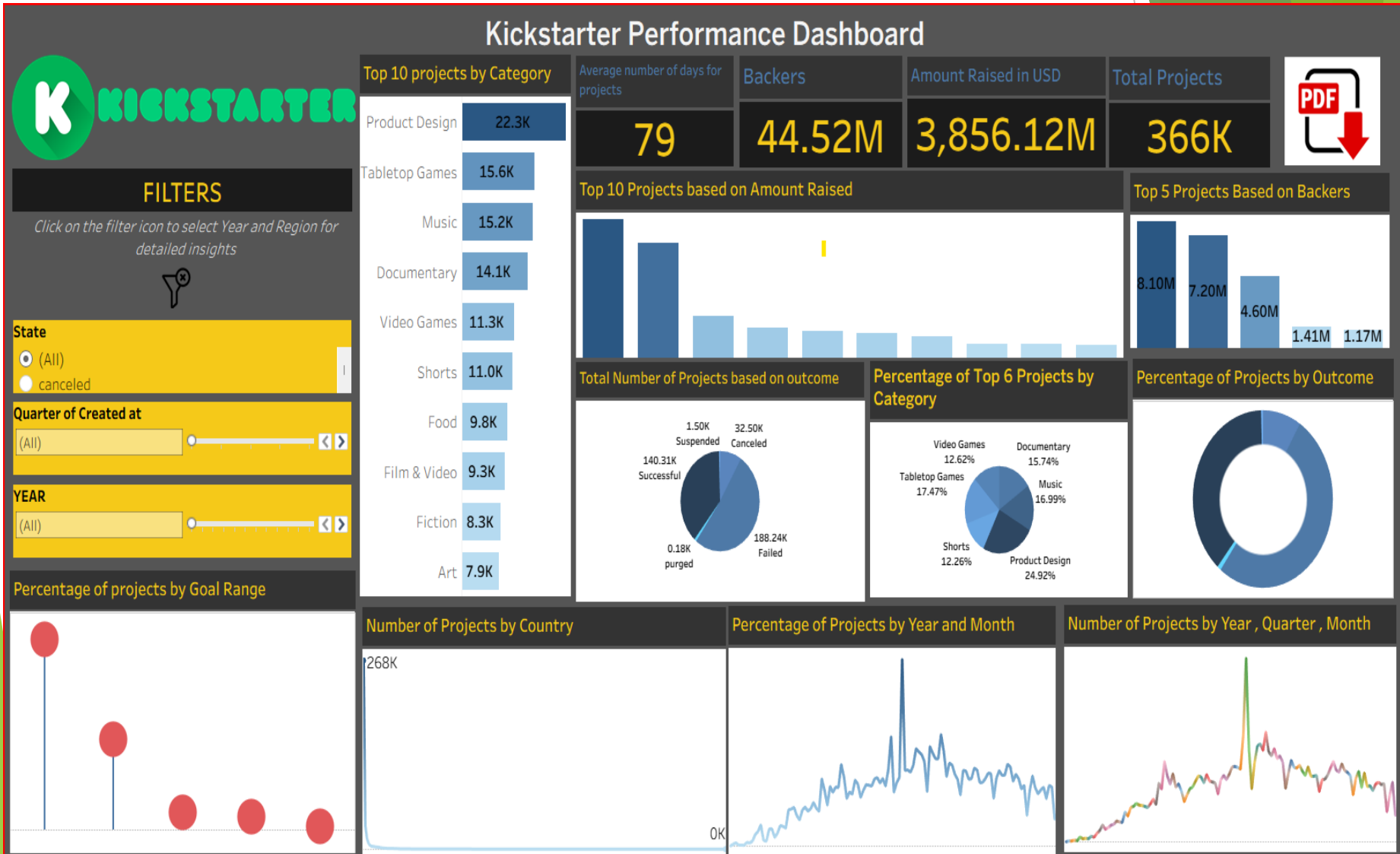
Conclusion:

- Data reveals key drivers of crowdfunding success

Next Steps:

- Deploy dashboards online
- Automate currency updates
- Integrate live data APIs

Dashboard



Use the below buttons to navigate

Crowdfunding Insights Dashboard

KICKSTARTER



Overview

KPIs

Percentage

Year

2009

Outcome

All

Quarter

Q4

366K

Total Project

79.36

Avg Days

44.52M

Backers

4bn

Amount Raised

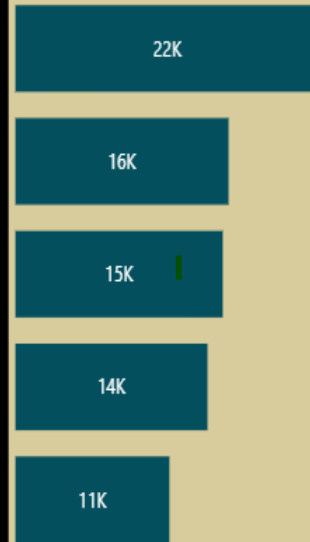
Percentage of the Top 6 Projects by Category



Total Project by Outcome



Top 5 Project by Category



Percentage of Total Projects by Year and Month



Percentage of Projects by Goal_Rang



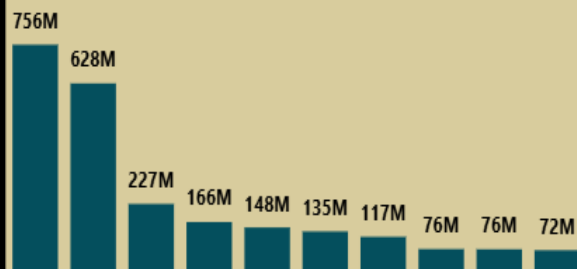
Percentage of the Top 5 Projects Overall



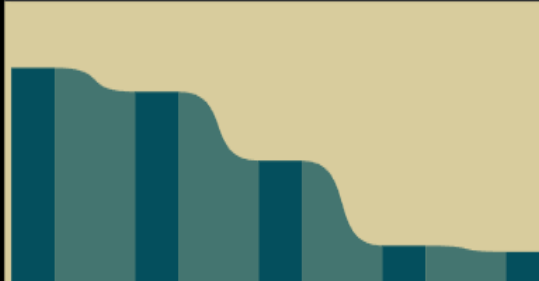
Total Project by Year, Quarter and Month



Top 10 Projects Based on Amount Raised



Top 5 Projects Based on Backers



Total Projects by Country



CROWDFUNDING

KICKSTARTER



Year

2016

2017

2018

2019

Total Projects By Location



Number of backers

44.52M

Successful Projects

140K

Avg days of successful projects

80

Amount Raised in USD

3,856.12M

Quarter

Q1

Q2

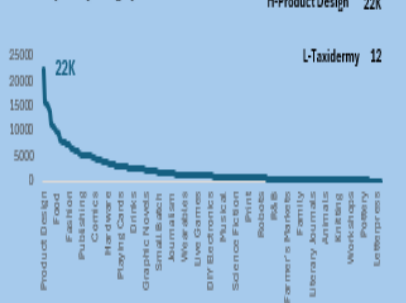
Q3

state

successful

suspended

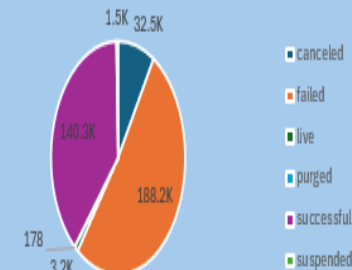
Total Projects By Category



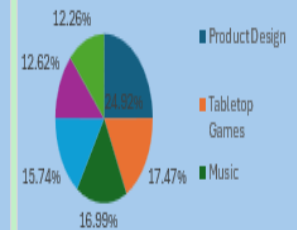
Percentage of Projects by Year and Month



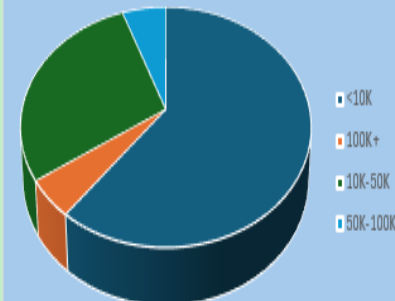
Total Projects by Outcome



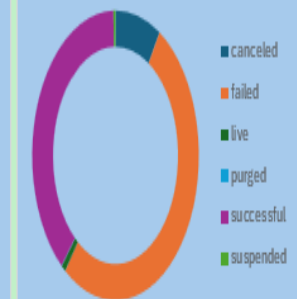
Percentage of Top 6 Projects by Category



Percentage of Projects by Goal Range



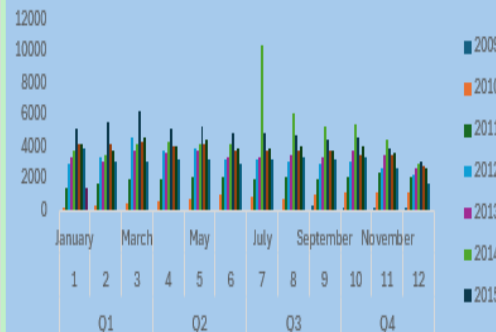
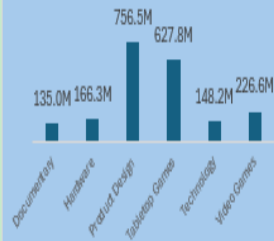
Percentage of Projects by Outcome



Top 6 Projects by Backers



Top 6 Projects by Raised Amount in USD



Thank you!