

# Can you kick it?

Predicting what makes a Kickstarter campaign successful

**Elizabeth Sia**

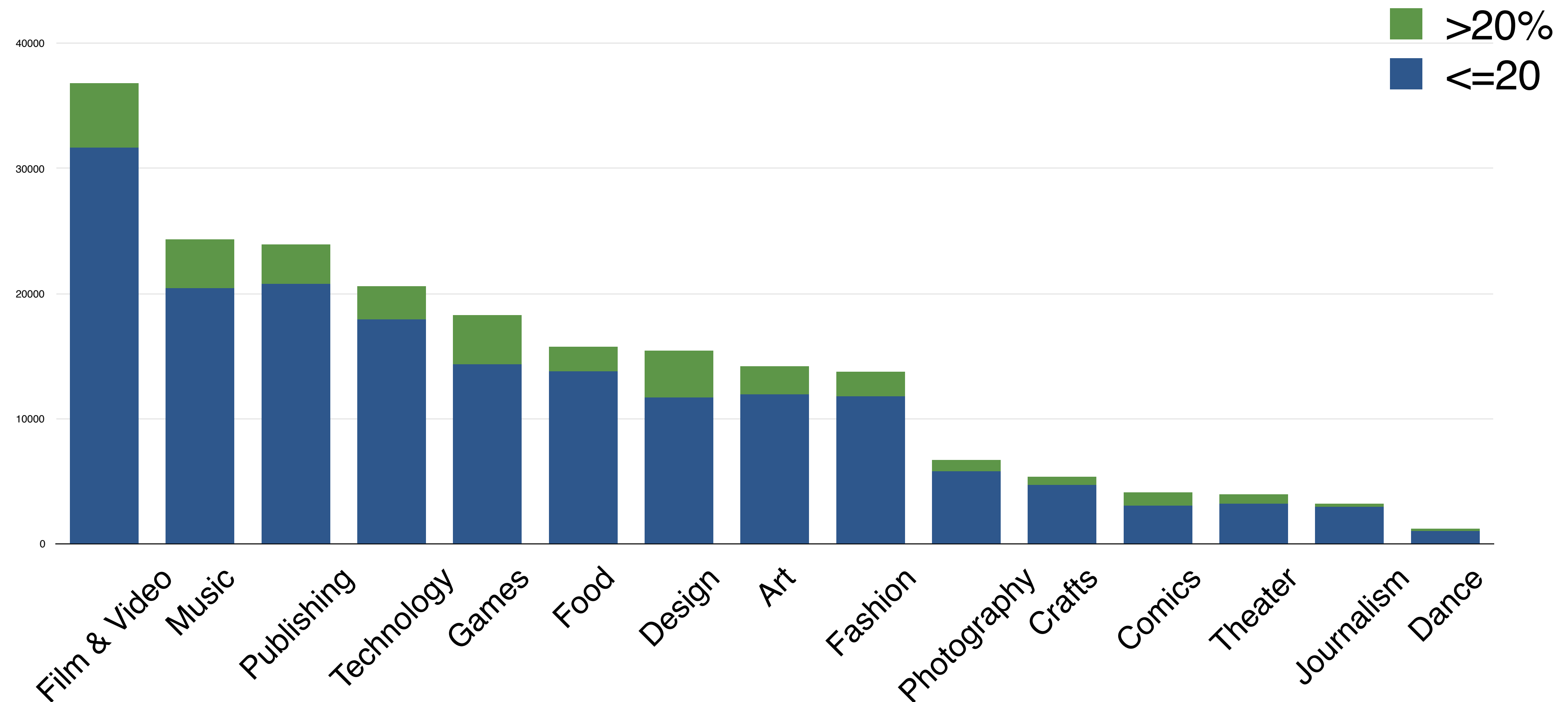
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# Only 35% of Kickstarter Projects are Successful

## and when they fail, they fail BAD

80% of unsuccessful projects **ONLY ACHIEVE LESS THAN 20%** of funding goal



# Solving this problem began with scraping Kickstarter campaign data

Campaign

Updates 15

Comments 71


Community

Share this project

★

About this project

Support this project



iKi 'A' Series Watch: Minimalist watch with Swiss movement

Melbourne, AUProduct Design

AU\$ 23,622

pledged of AU\$ 15,000 goal

173

backers

Pledge AU\$ 1 or more

A big thank you from the iKi Studio for your support!

ESTIMATED DELIVERY

Sep 2016

6 backers

Pledge AU\$ 99 or more

Approximate 75 US/ 66 EUR

EARLY BIRD SPECIAL - 1 x 'A' Series iKi watch of your choice:

A01 - Rosegold casing with tan brown leather strap; OR

A02 - Gunmetal casing with black leather strap

50% off RRP of A\$199

ESTIMATED DELIVERY

Sep 2016

SHIPS TO

Anywhere in the world



# Solving this problem began with scraping Kickstarter campaign data

founder  
updates/  
comments

Campaign

Updates 15

Comments 71

Community

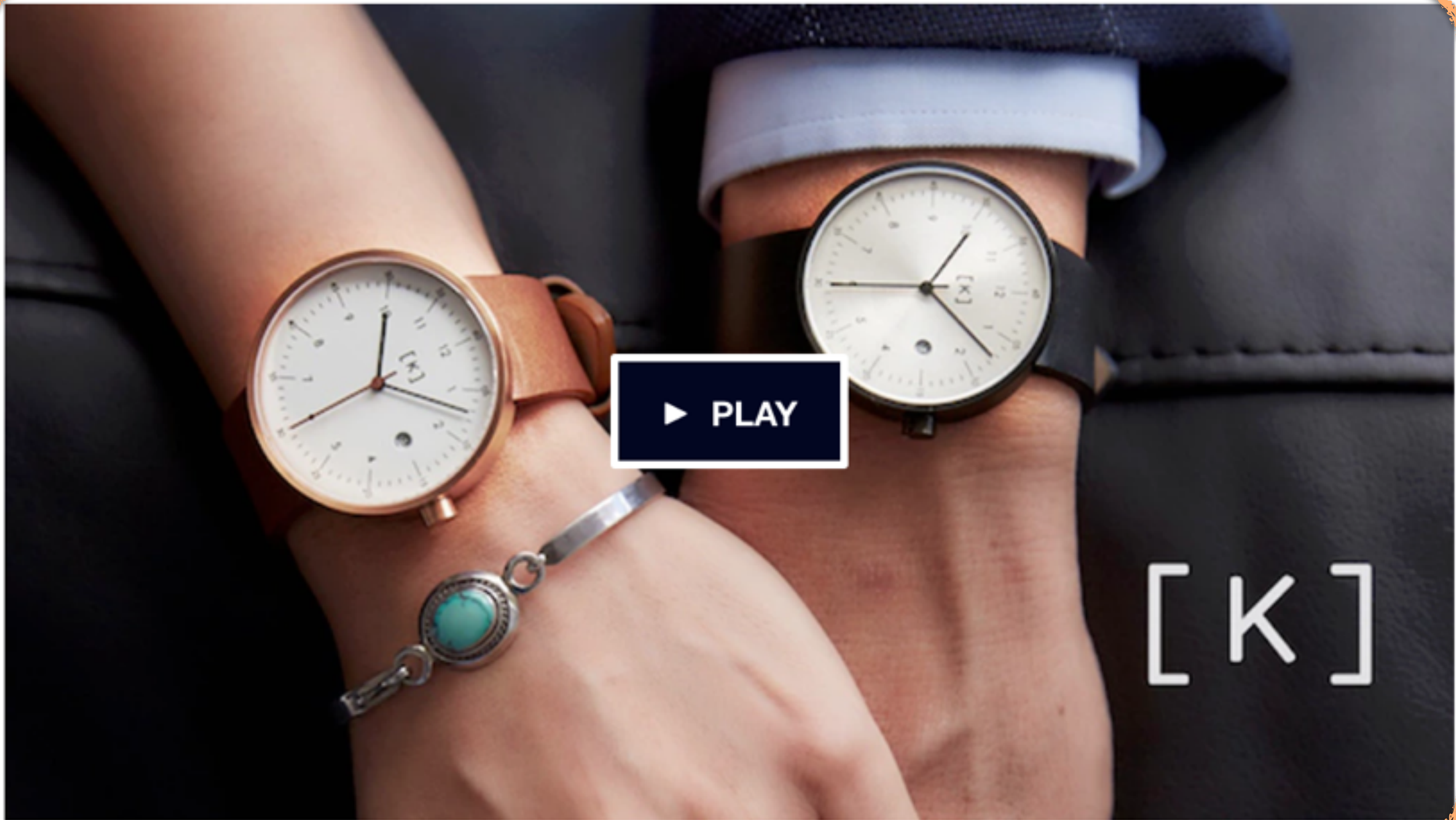
Share this project



About this project

Image/video content

Supporter Project reward structure



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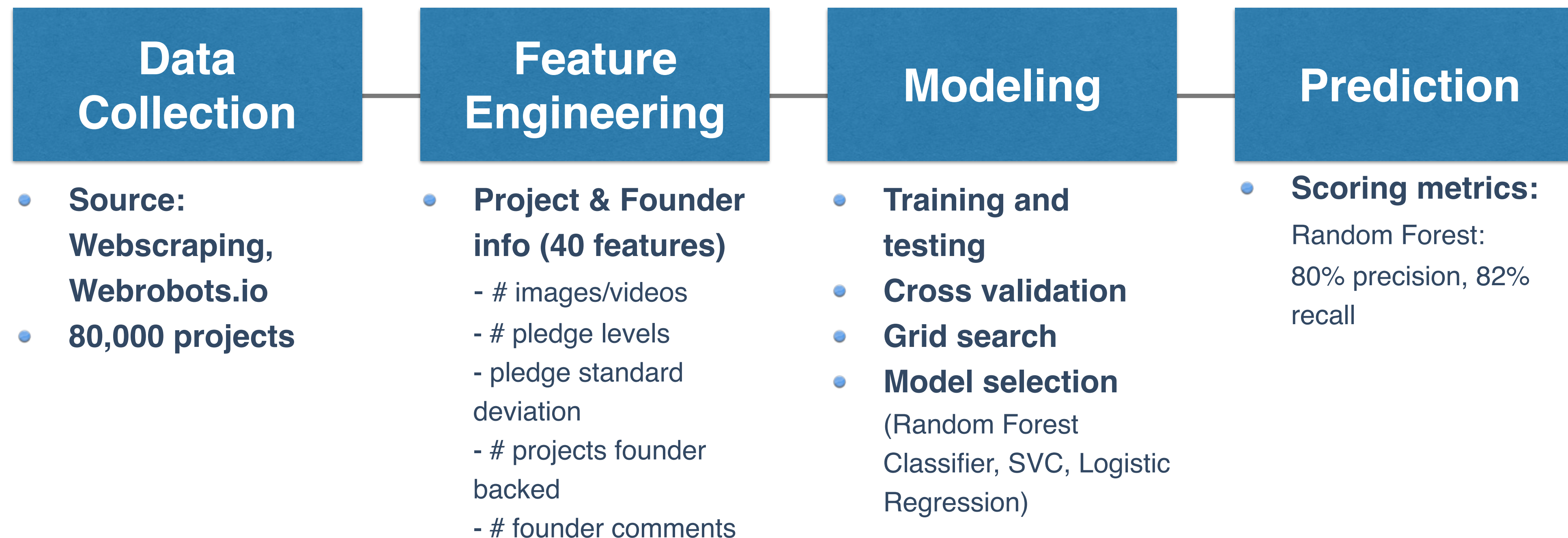
Sep 2016

SHIPS TO

Anywhere in the world

Project title,  
funding goal,  
# backers

# Metadata-based classifier model yields 80% precision

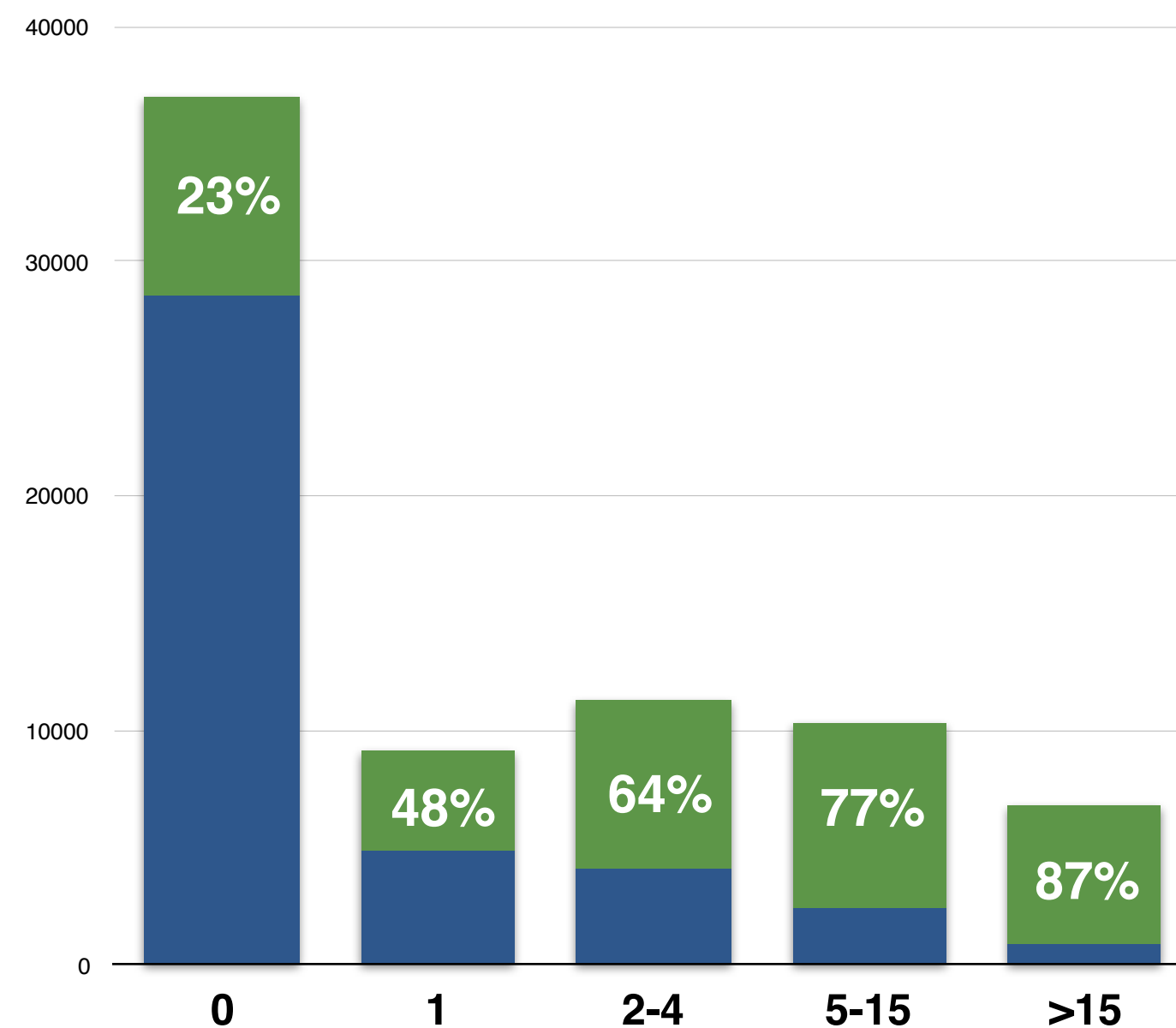




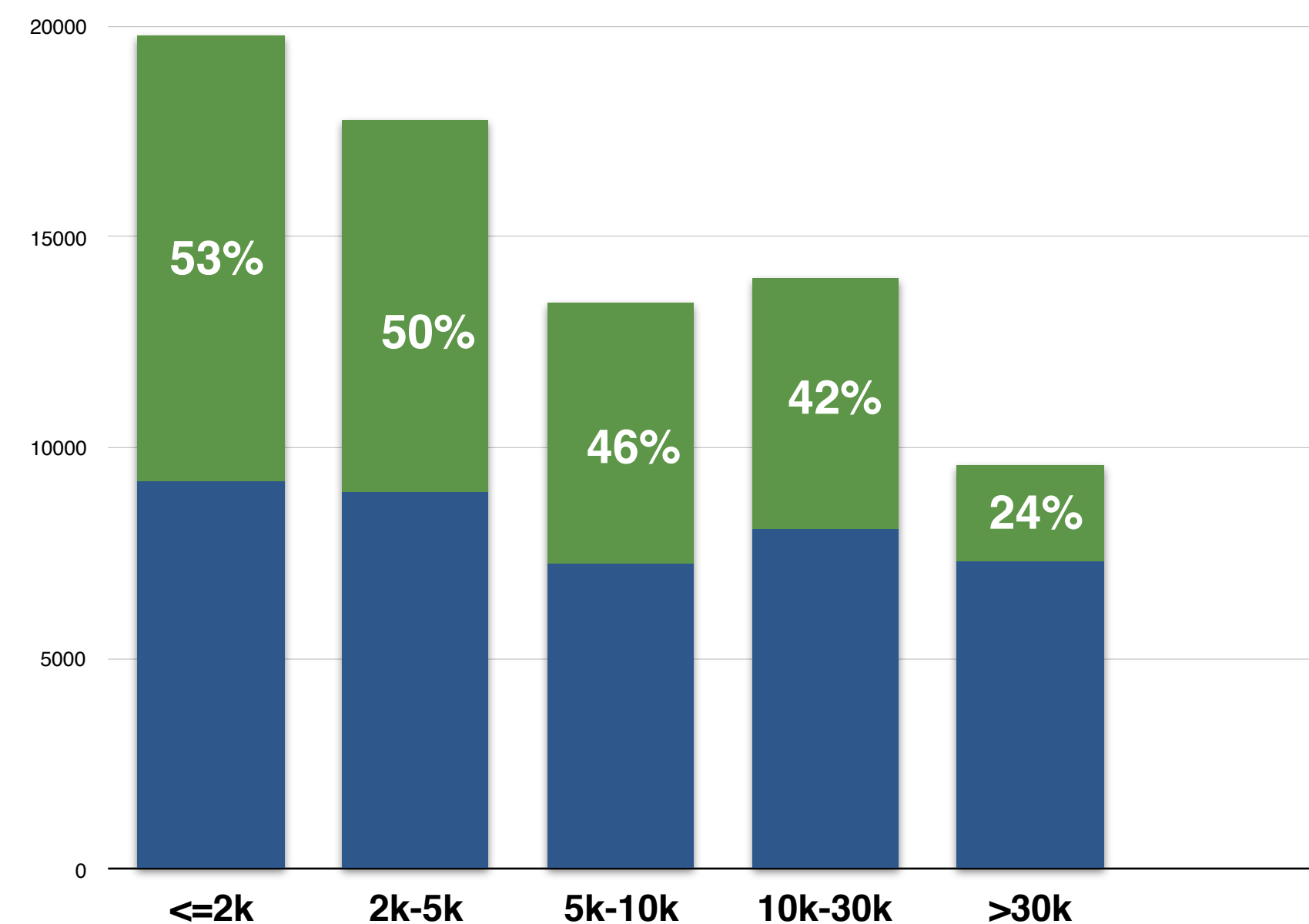
# The features that identified a successful project did not tell much about the project's story

Successful  
Failed

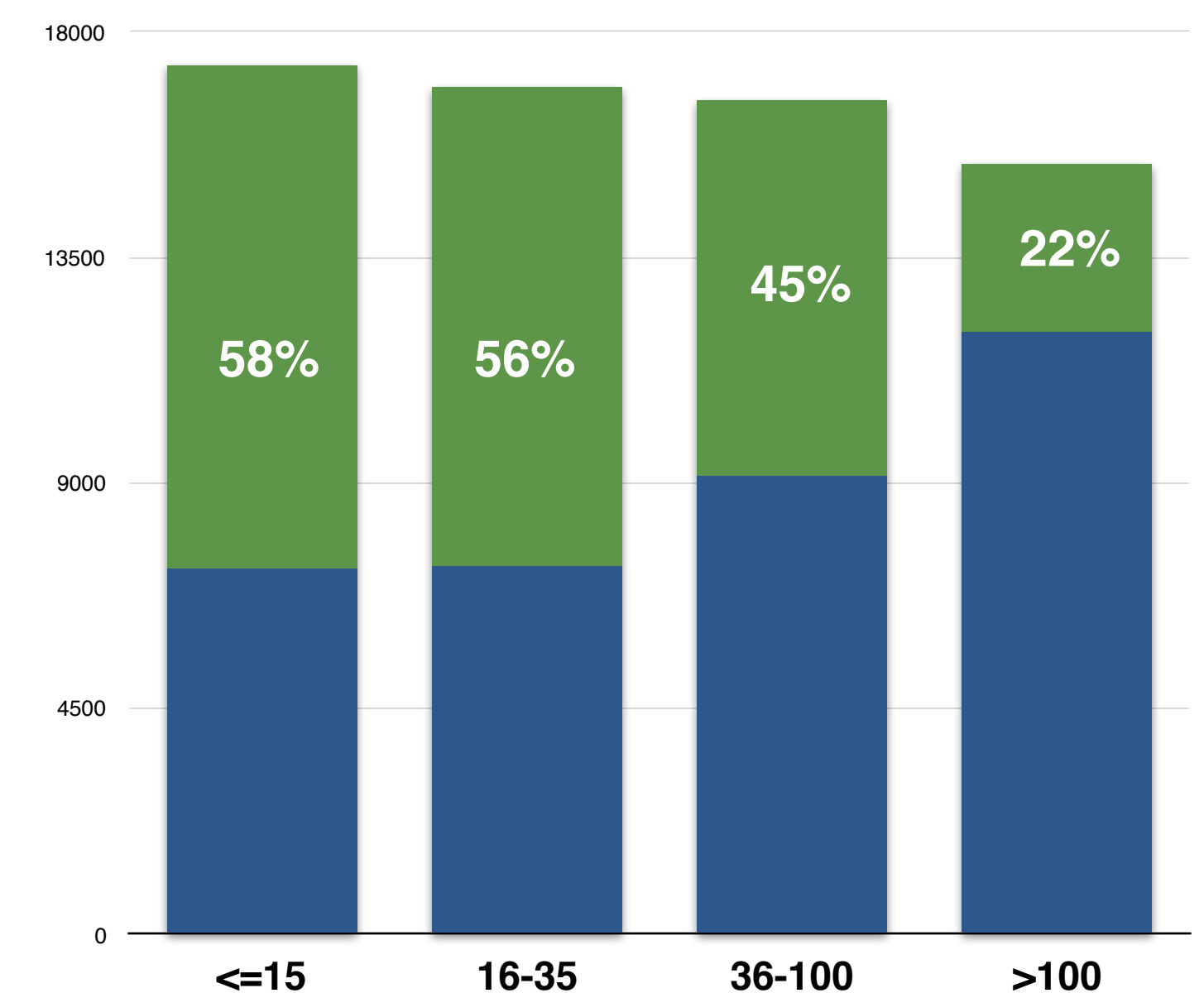
Breakdown by # of projects a founder backed



Breakdown by project funding goal



Breakdown by average number of backers required



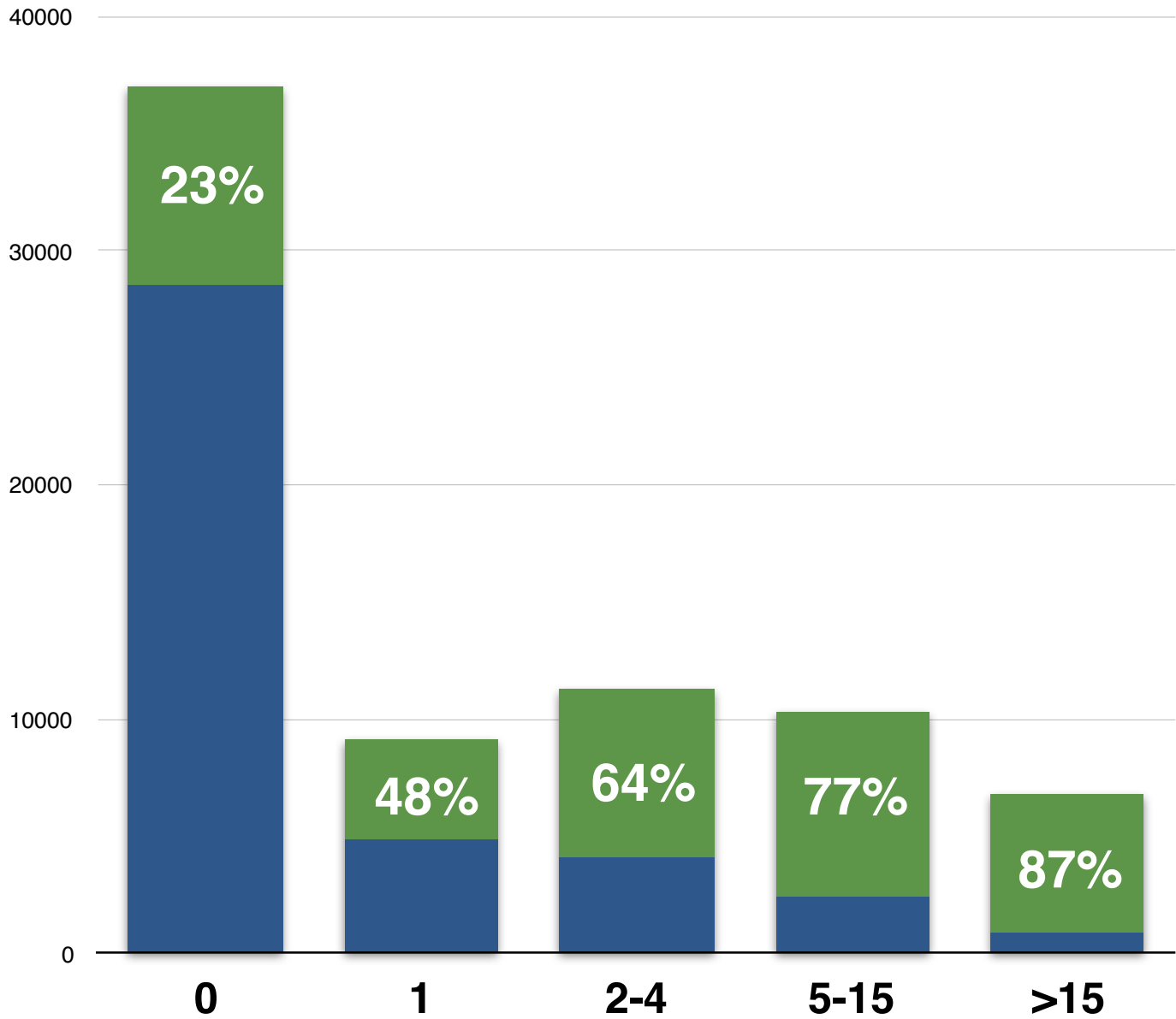
# The features that identified a successful project did not tell much about the project's story

Successful founders backed more projects

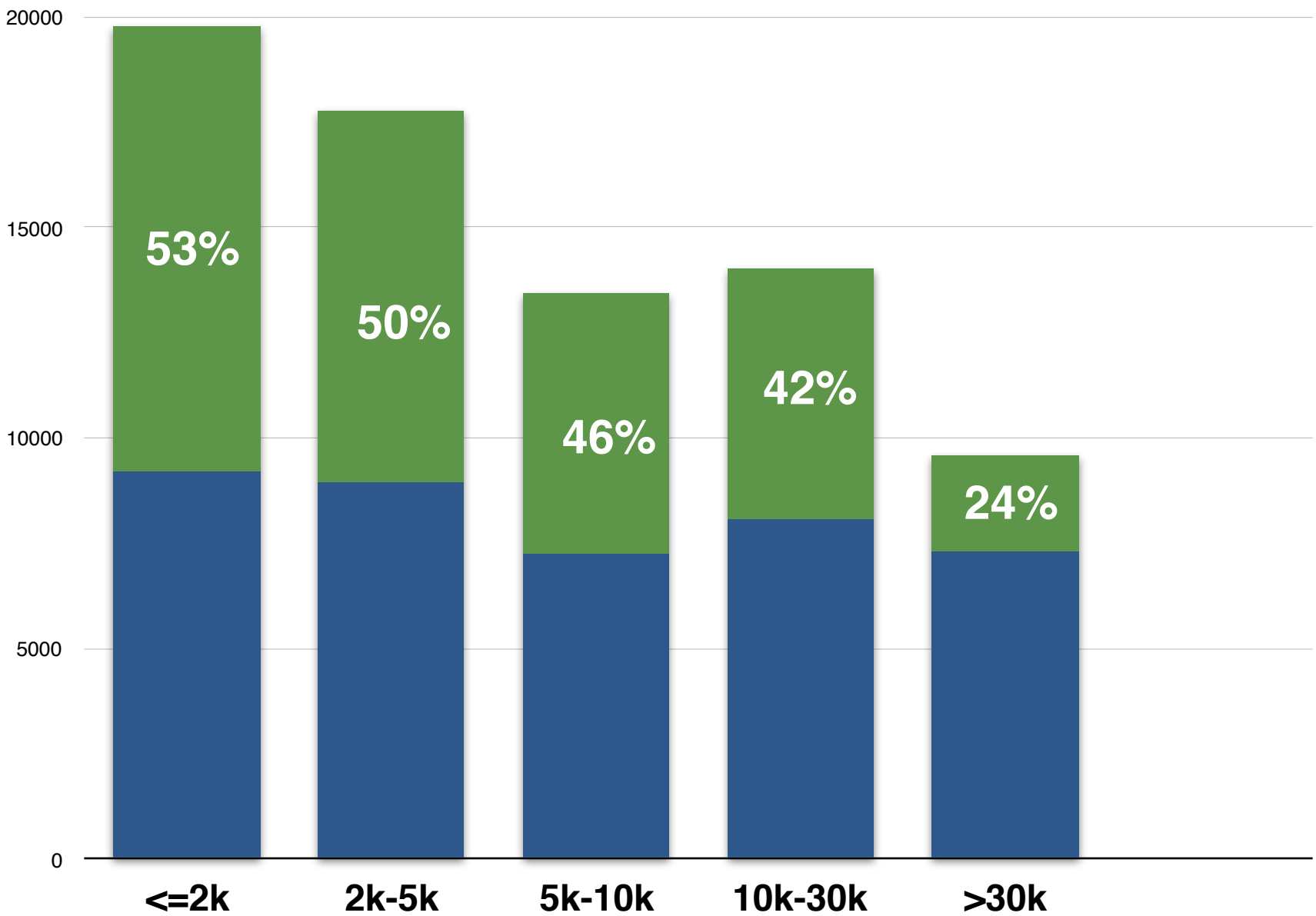
Lower funding goals were likely to be funded

Successful projects have reward structures that require less # backers

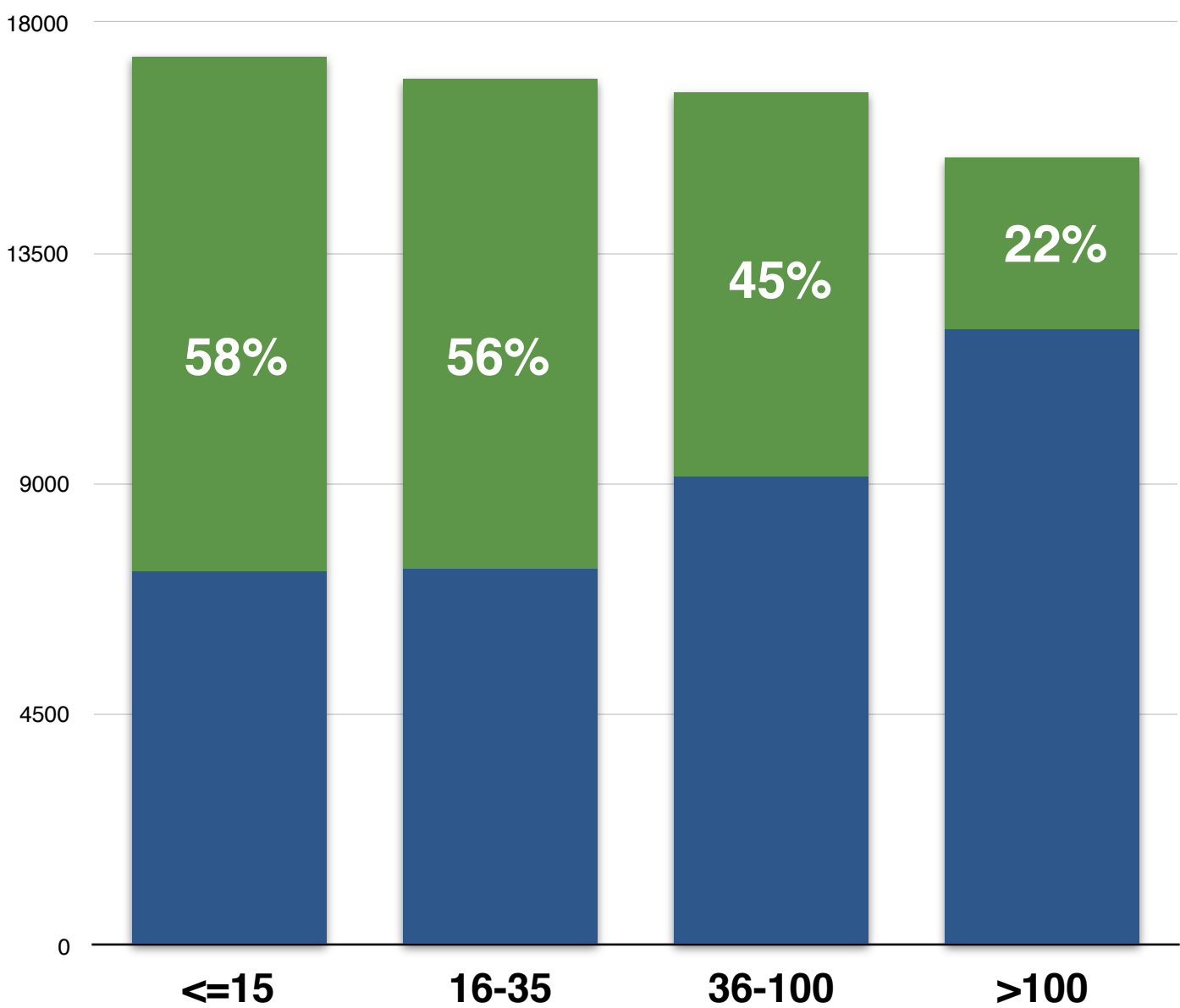
Breakdown by # of projects a founder backed



Breakdown by project funding goal

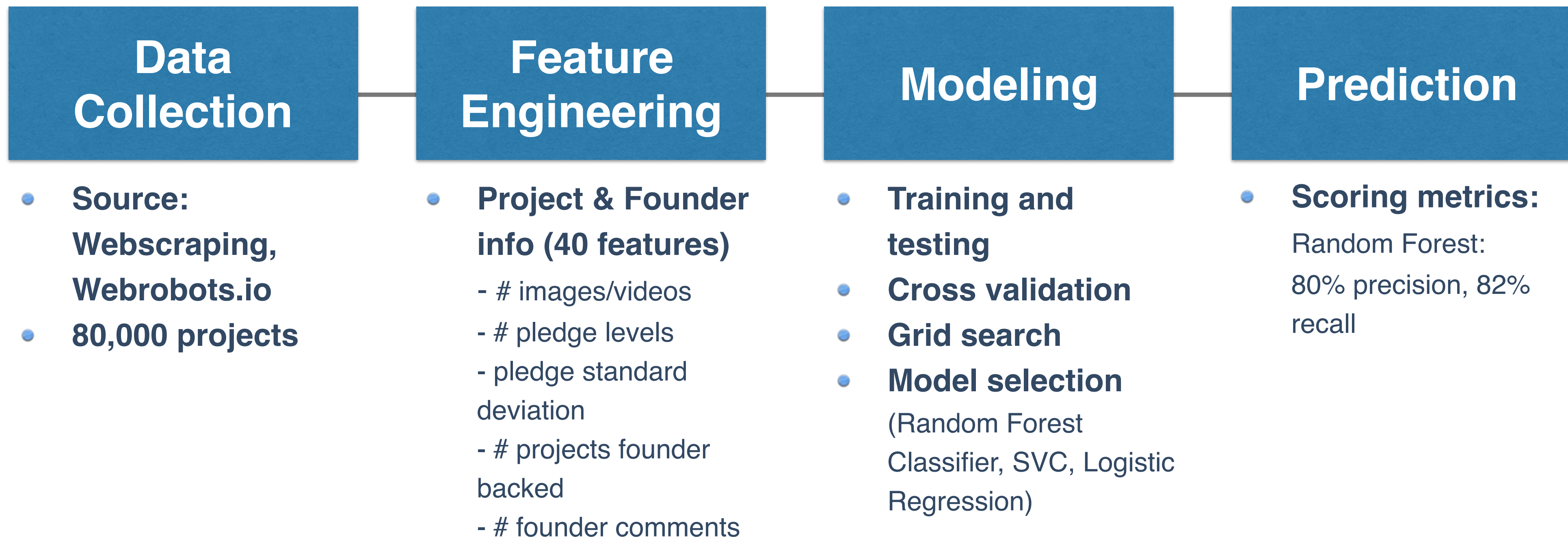


Breakdown by average number of backers required



# Will adding text information from project descriptions build a stronger and more interpretable model?

## Metadata





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## Metadata



## Project descriptions

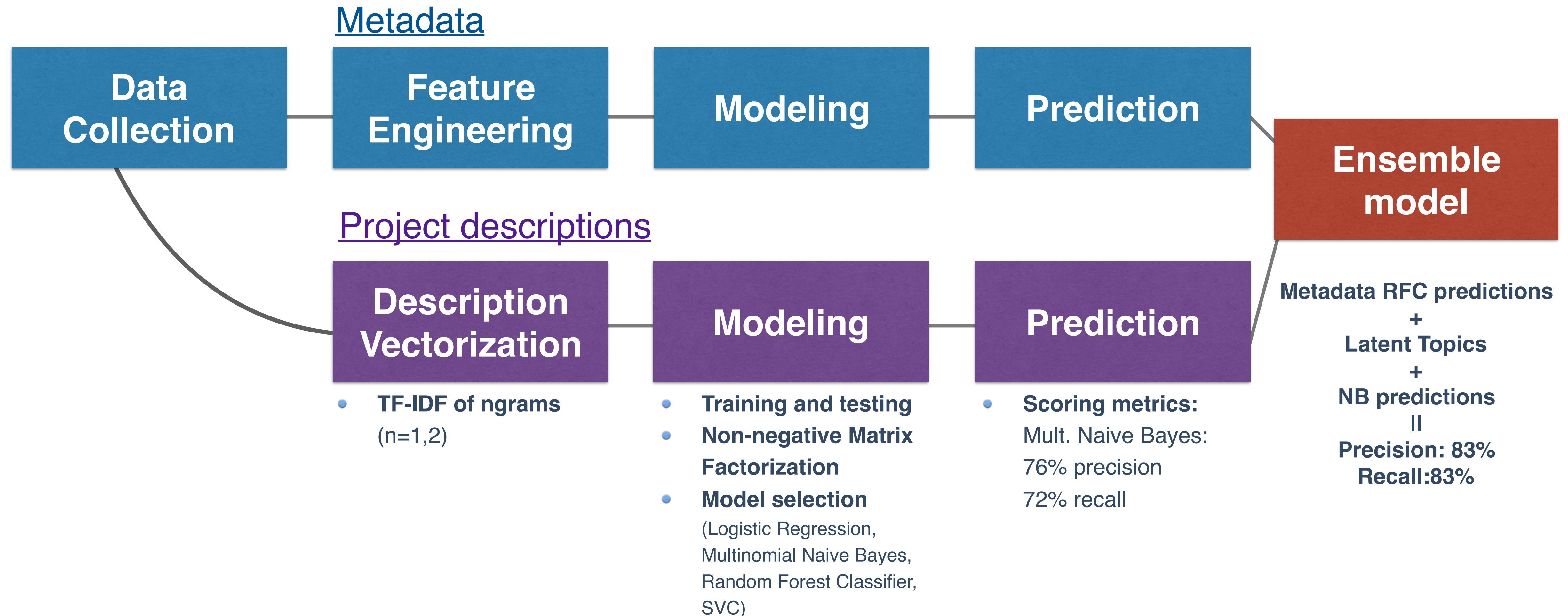


- **TF-IDF of ngrams**  
(n=1,2)

- **Training and testing**
- **Non-negative Matrix Factorization**
- **Model selection**  
(Logistic Regression, Multinomial Naive Bayes, Random Forest Classifier, SVC)

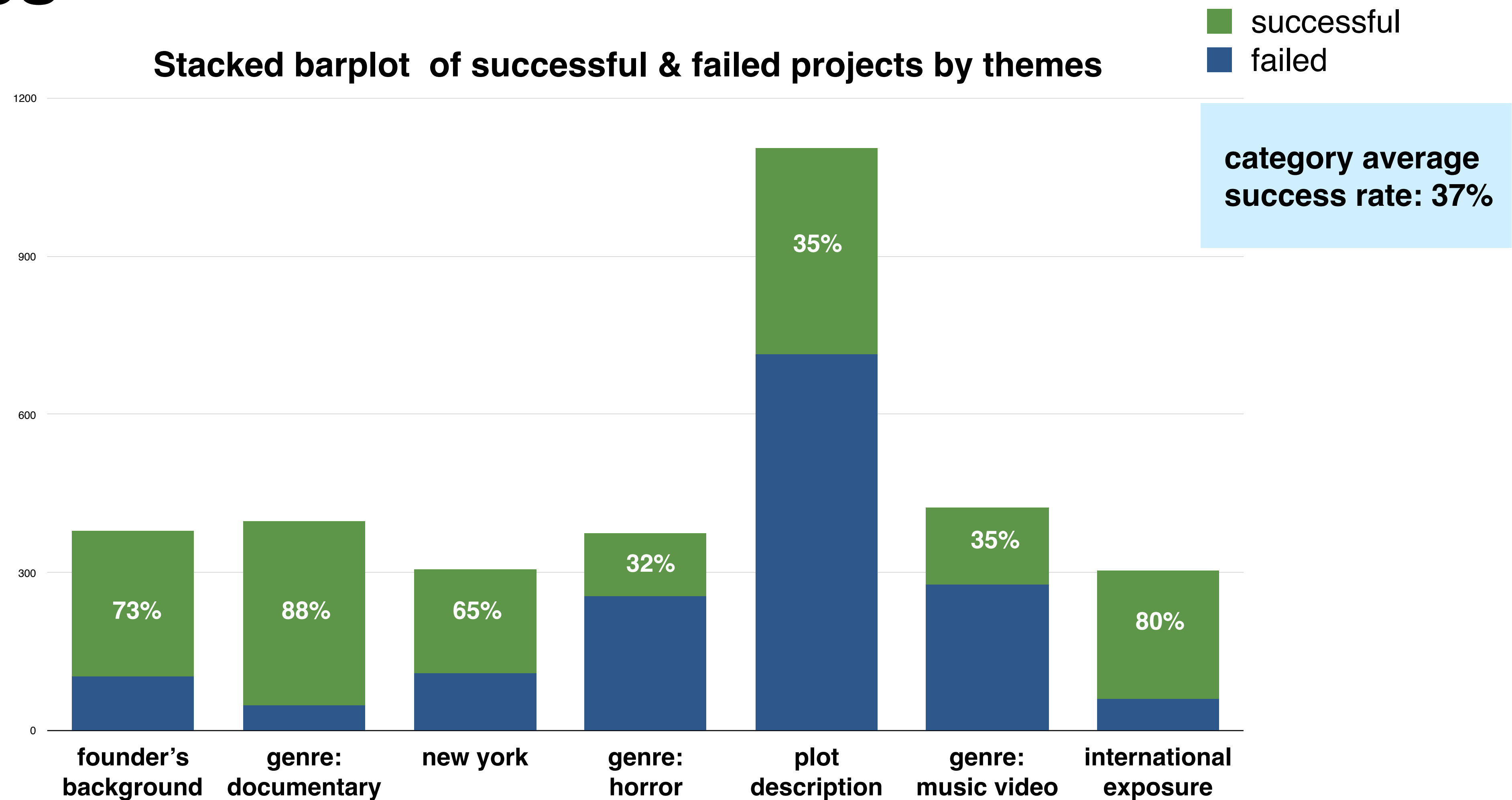
- **Scoring metrics:**  
Mult. Naive Bayes:  
76% precision  
72% recall

# Ensemble model captures metadata and latent topics signals to increase score to 83%

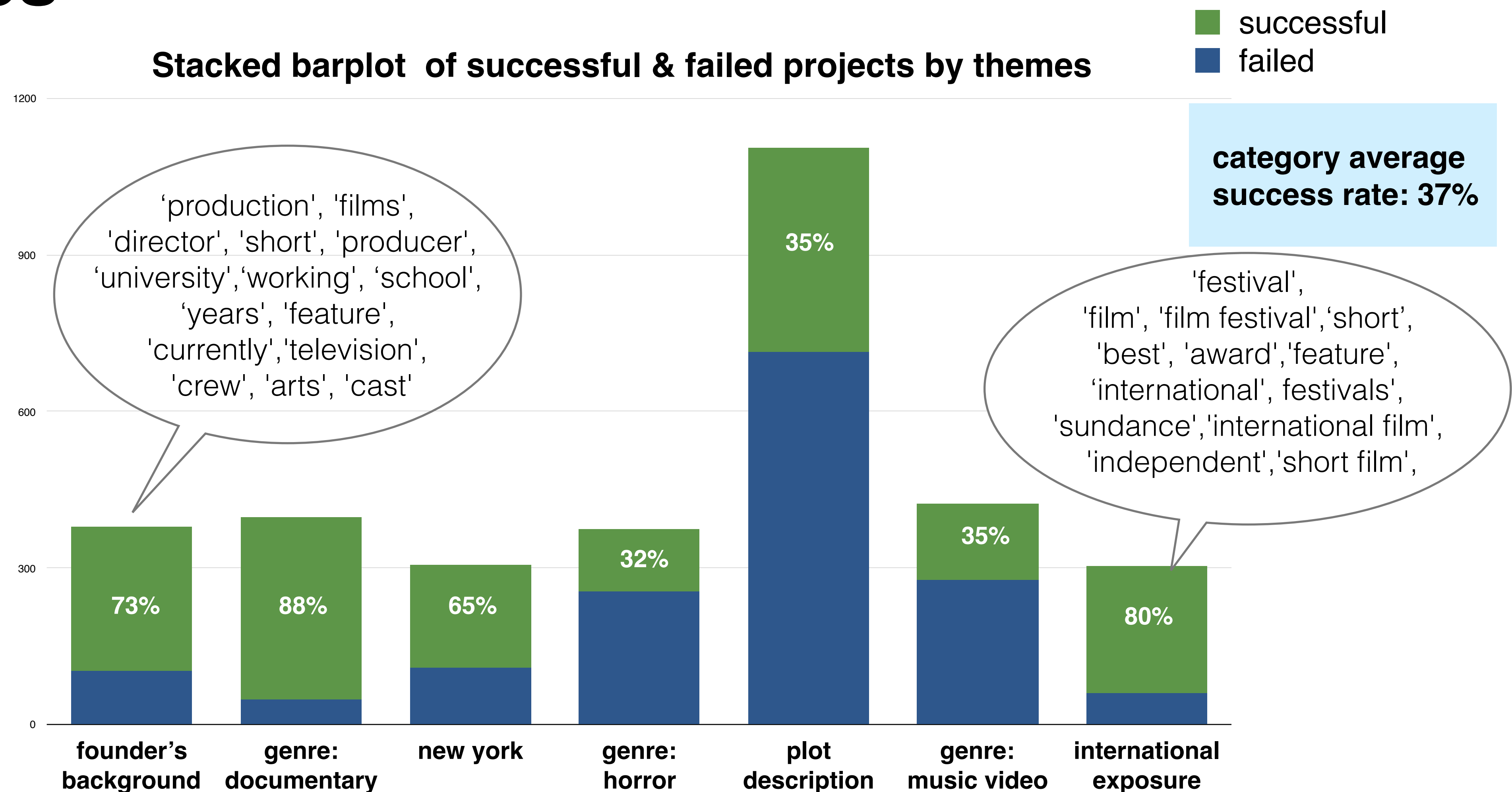




# Successful projects followed certain underlying themes



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# Future work

- Optical character recognition to detect text within the images
- Explore additional features (sentiment analysis of comments and temporal features)

# Thank you

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[https://github.com/lizbug/capstone\\_project](https://github.com/lizbug/capstone_project)



# Appendix

# Feature importances from metadata Random Forest classifier

