



**Deloitte.**



# Computing Vision Business Recommendations

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**MAKING AN  
IMPACT THAT  
MATTERS**  
*since 1845*



# Our Team



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The background of the slide features a complex geometric pattern of interconnected light blue lines forming a hexagonal grid. Various hexagons are scattered throughout, some in solid colors (light green, olive green, light blue, and black) and others in white with light blue outlines. A central light blue hexagon contains the main text.

## ***Business Goal:***

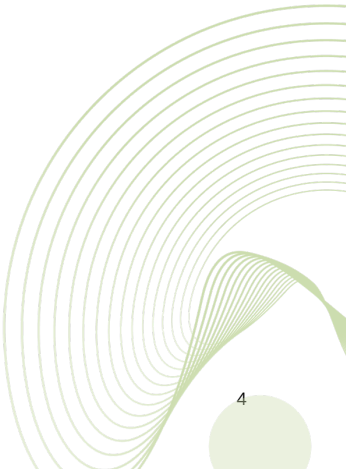
*Provide Computing Vision with actionable insights to decide what types of films they should specialize in for their new movie studio*



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# Data Collection

1

## **IMDB**

Database that contains information from the IMDB website, including general movie information. The data contains information about movie genres, directors, production year, runtime, etc.

2

## **Numbers & TheMovieDB**

Datasets that contain information about movie popularity, movie budget, and total grossing information from [themoviedb.org](https://www.themoviedb.org) and [the-numbers.com](https://the-numbers.com).

3

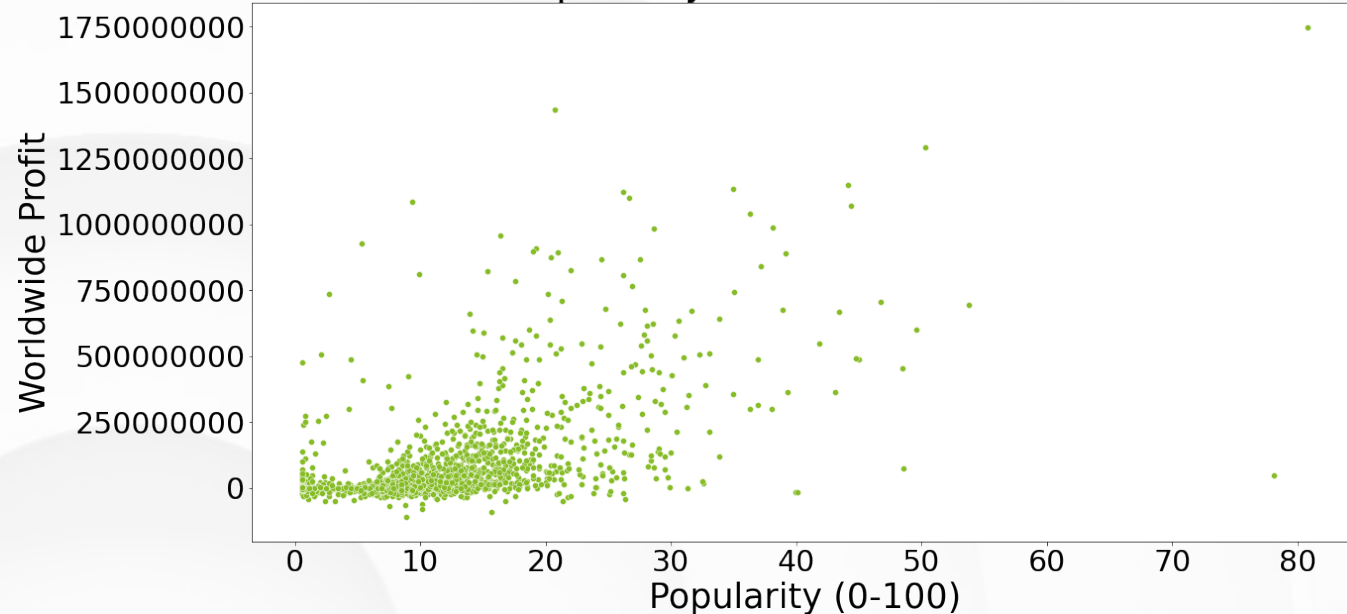
## **Finalized Data Frame used for Analysis**

Finalized data frame combines the information from these two sources of data, as well as profit calculations.

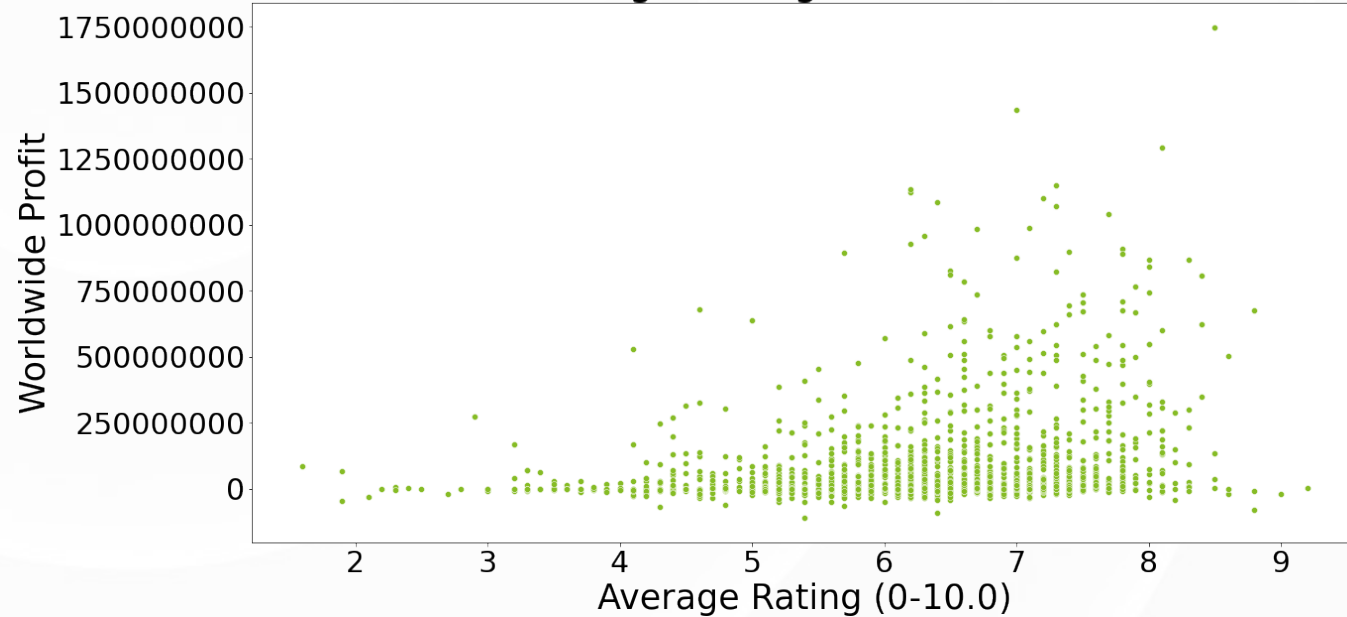
## Why focus on profit

- Calculated by subtracting production budget from gross worldwide revenue
- Profit is positively correlated with both “popularity” (0.60) and “IMDB average rating” (0.25)
- Profit is indicative of both financial measures important to stakeholders and audience popularity

Popularity vs Worldwide Profit



IMDB Average Rating vs Worldwide Profit





# Recommendations:

Increase profit through...

1

**Genre Prioritization**



2

**Directorship Prioritization**



3

**Runtime Optimization**





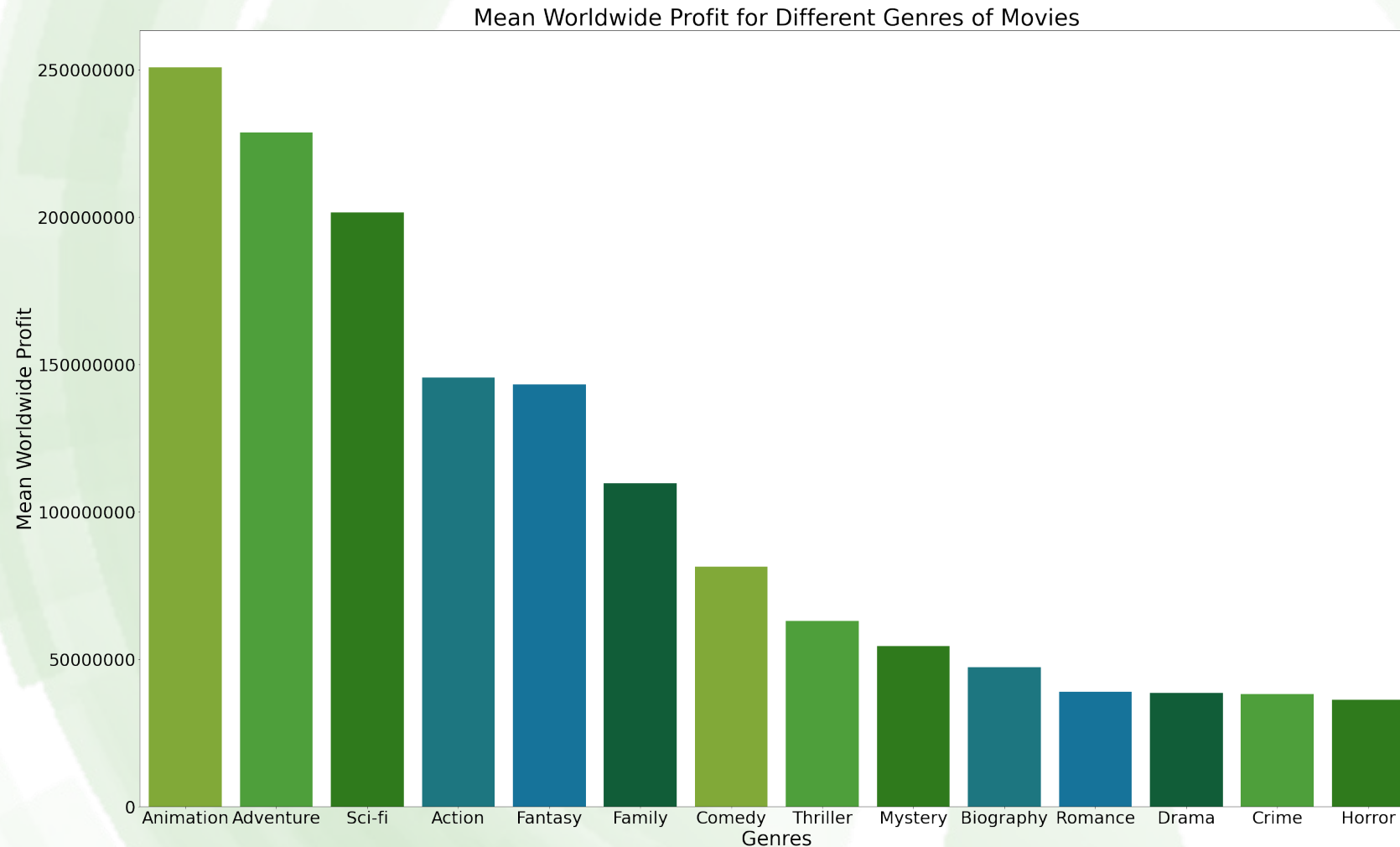
## ***Recommendation #1***

*Genre Prioritization: Animation, Adventure, and  
Sci-Fi films*





# Genre Prioritization Analysis: Animation, Adventure, Sci-Fi




Computing Vision should prioritize Animation, Adventure, and Sci-Fi films

Average Worldwide Profit:

- Animation: \$250 million
- Adventure: \$229 million
- Sci-fi: \$202 million

Average Production Budget:

- Animation: \$91 million
- Adventure: \$98 million
- Sci-fi: \$76 million



## ***Recommendation #2***

*Directorship prioritization: Joss Whedon,  
Anthony Russo, Kyle Balda or another top 8  
director depending on movie genre*

# Directorship Recommendations Based on Genre



## BRAD BIRD: ANIMATION

- Brad Bird has produced the highest profit, on average, for animation films
- Followed by Kyle Balda and Andrew Stanton

Director	Average Profit
Brad Bird	\$1.24 billion
Kyle Balda	\$1.10 billion
Andrew Stanton	\$1.02 billion



## COLIN TREVORROW: ADVENTURE

- Colin Trevorrow produced the highest profit, on average, for adventure films
- Followed by Joss Whedon and Ryan Coogler

Director	Average Profit
Colin Trevorrow	\$1.65 billion
Joss Whedon	\$1.46 billion
Ryan Coogler	\$1.35 billion



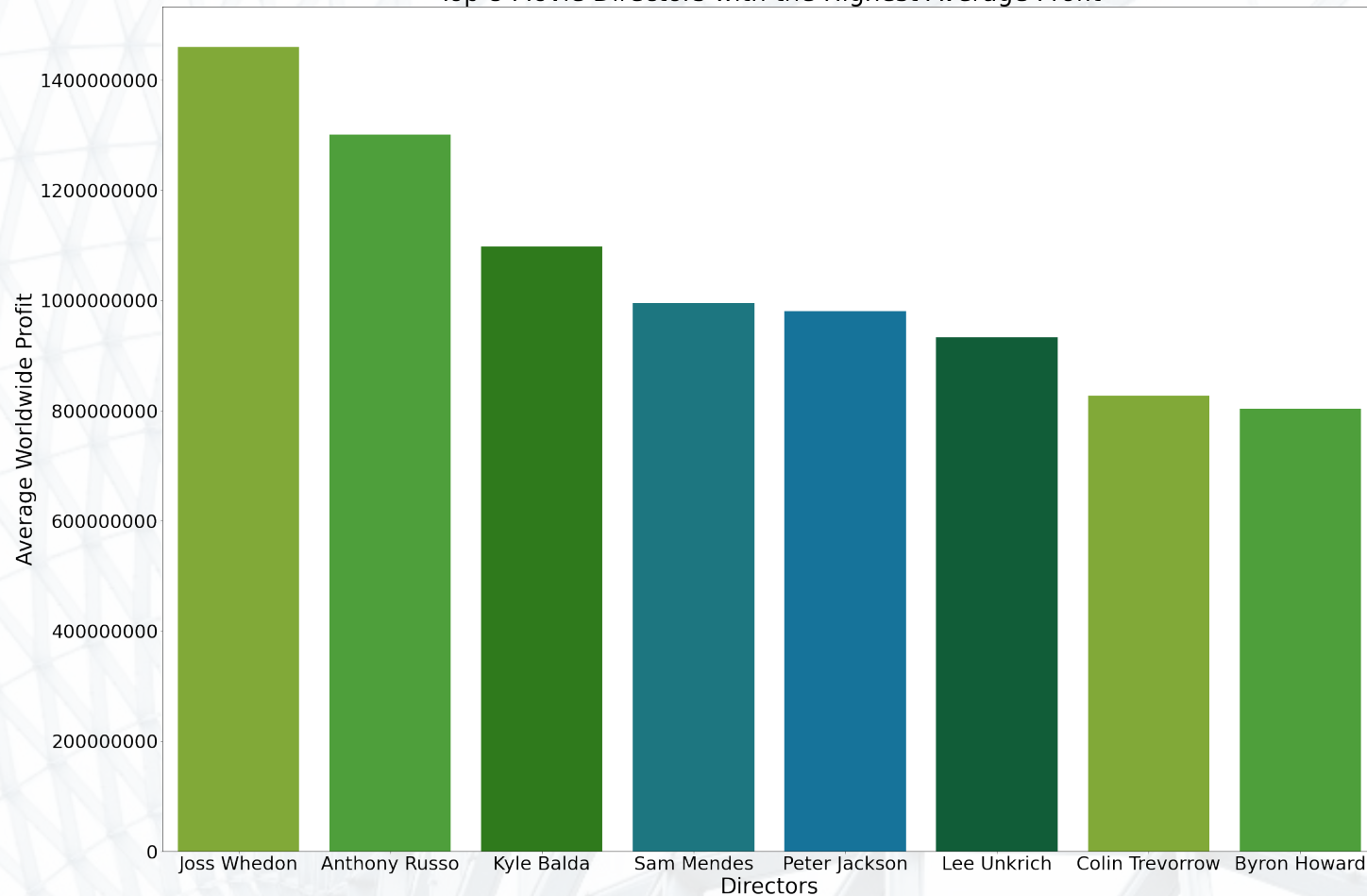
## COLIN TREVORROW: SCI-FI

- Colin Trevorrow also produced the highest profit, on average, for Sci-Fi films
- Also followed by Joss Whedon and Ryan Coogler

Director	Average Profit
Colin Trevorrow	\$1.65 billion
Joss Whedon	\$1.46 billion
Ryan Coogler	\$1.35 billion

# Directorship Prioritization: Joss Whedon, Anthony Russo, Kyle Balda

Top 8 Movie Directors with the Highest Average Profit



Top 8 directors (produced 5+ movies) that have the highest average gross profit across movies they directed

Doesn't take genre into account

Top 3 Directors:

- Joss Whedon  
\$1.46 billion
- Anthony Russo  
\$1.30 billion
- Kyle Balda  
\$1.10 billion



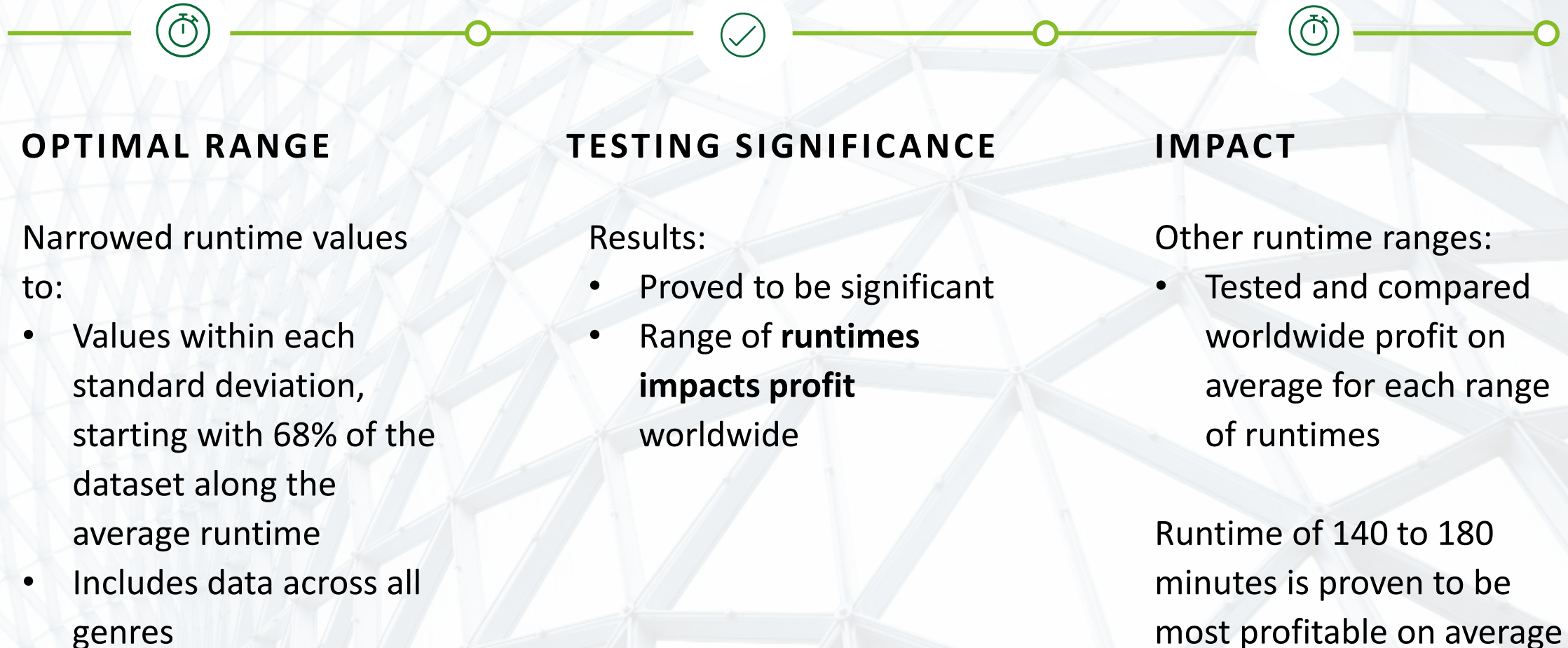
## ***Recommendation #3***

*Runtime Optimization:  
Between 140 and 180 minutes*





## Runtime Optimization: Between 140 and 180 minutes (approximately)







## Conclusion

**Runtime Optimization:**  
Between 140 - 180 minutes

**Increase Profitability:**  
Specialize using 3  
recommendations

**Genre Prioritization:**  
Animation, Adventure, Sci-Fi

**Directorship Prioritization:**  
Movies directed by one of the top  
directors within your desired genre



Questions?

