

The background of the slide is a dark, atmospheric image of a Rainbow Six Siege operator. The operator is wearing a black helmet with a visor, a tactical vest with a gold '6' emblem, and is holding a gold and black assault rifle. The scene is dimly lit with some smoke or mist in the background.

GDC

TOM CLANCY'S
RAINBOW SIX SIEGE

DATA-INFORMED GAME DESIGN

"Intelligence Game Design"

Geoffroy Mouret

Data Scientist

Leroy Athanassoff

Game Director

■ PLAN ■

Through the
Operators Balancing Lense

- 1 - Philosophy
- 2 - Methodology
- 3 - Conclusion

- 1 -

PHILOSOPHY

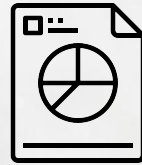




INTELLIGENCE DESIGN NEEDS DATA

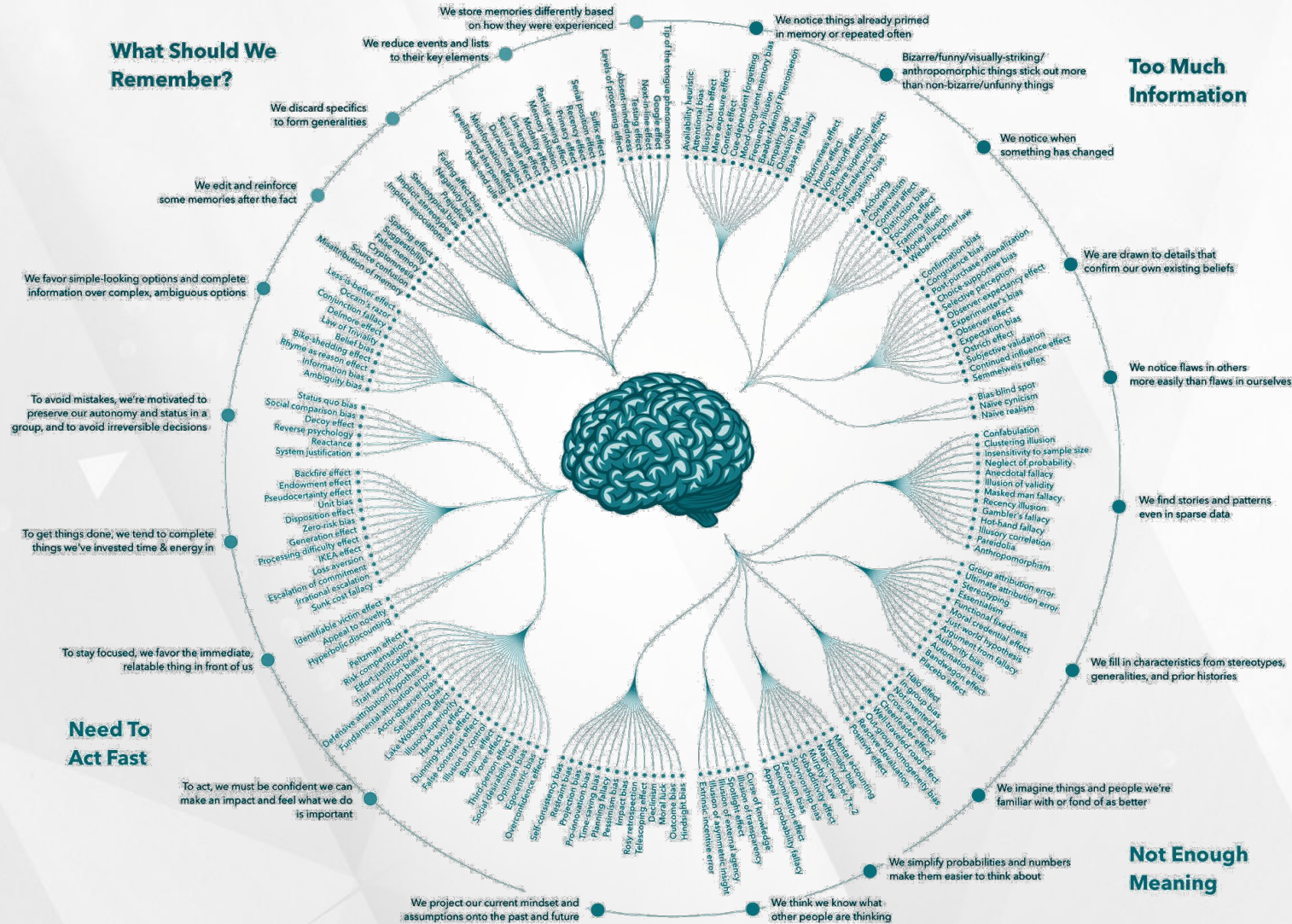


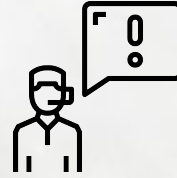
WHY DATA?



BEST **TOOL** TO HELP **INTUITION**

THE COGNITIVE BIAS CODEX



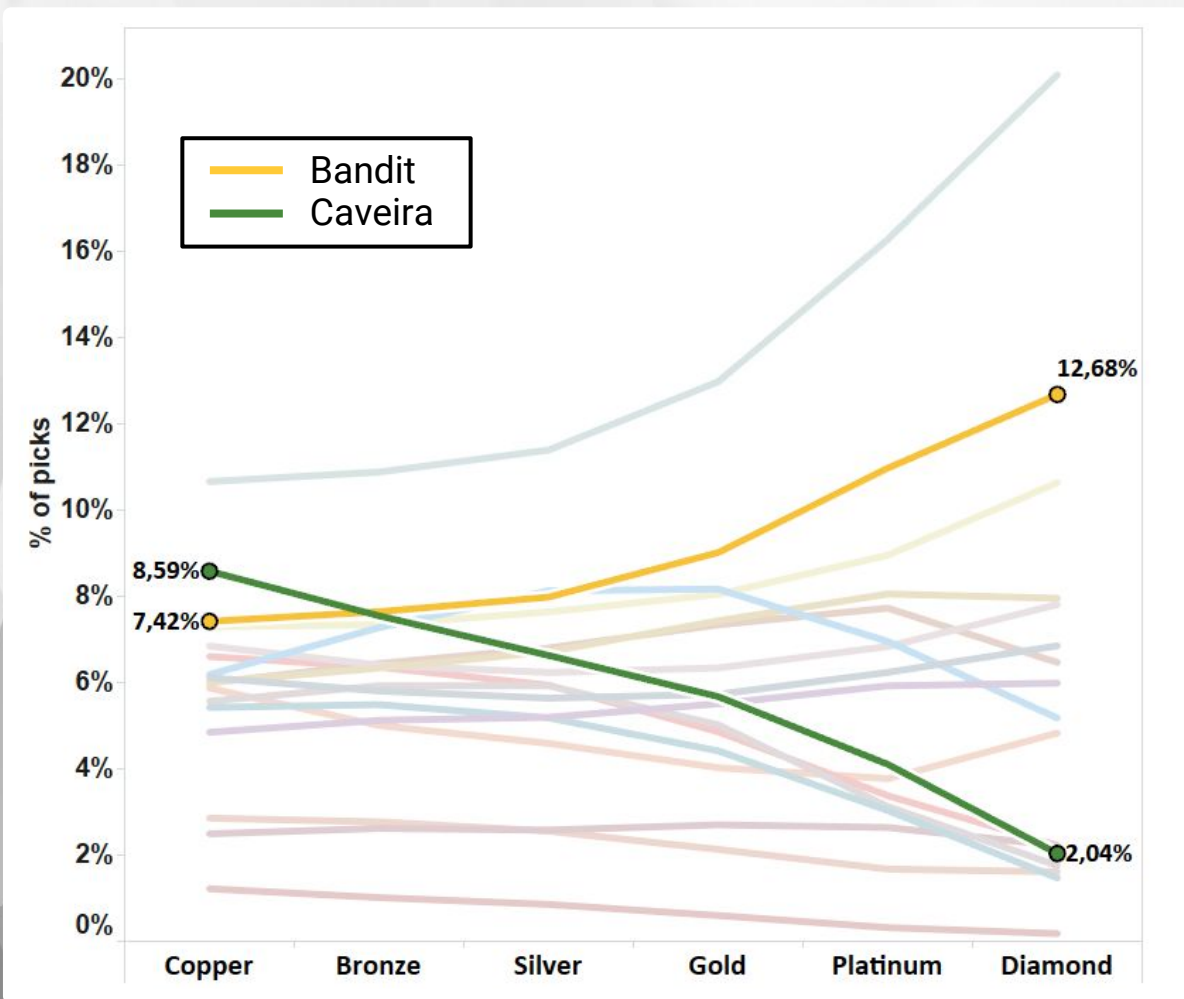


“ This always happens to me... ”
– No, it doesn't.




YOU CAN'T
SEE EVERYTHING

DIFFERENT SKILLS / DIFFERENT GAMES



Operators pick rates per Skill Rank – Ranked PC – Patch Y2S3

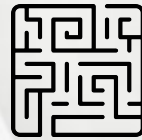




Data is important, fine...

But why do you need an
Analyst when you can
get a **report**?

DATA IS TRICKY!

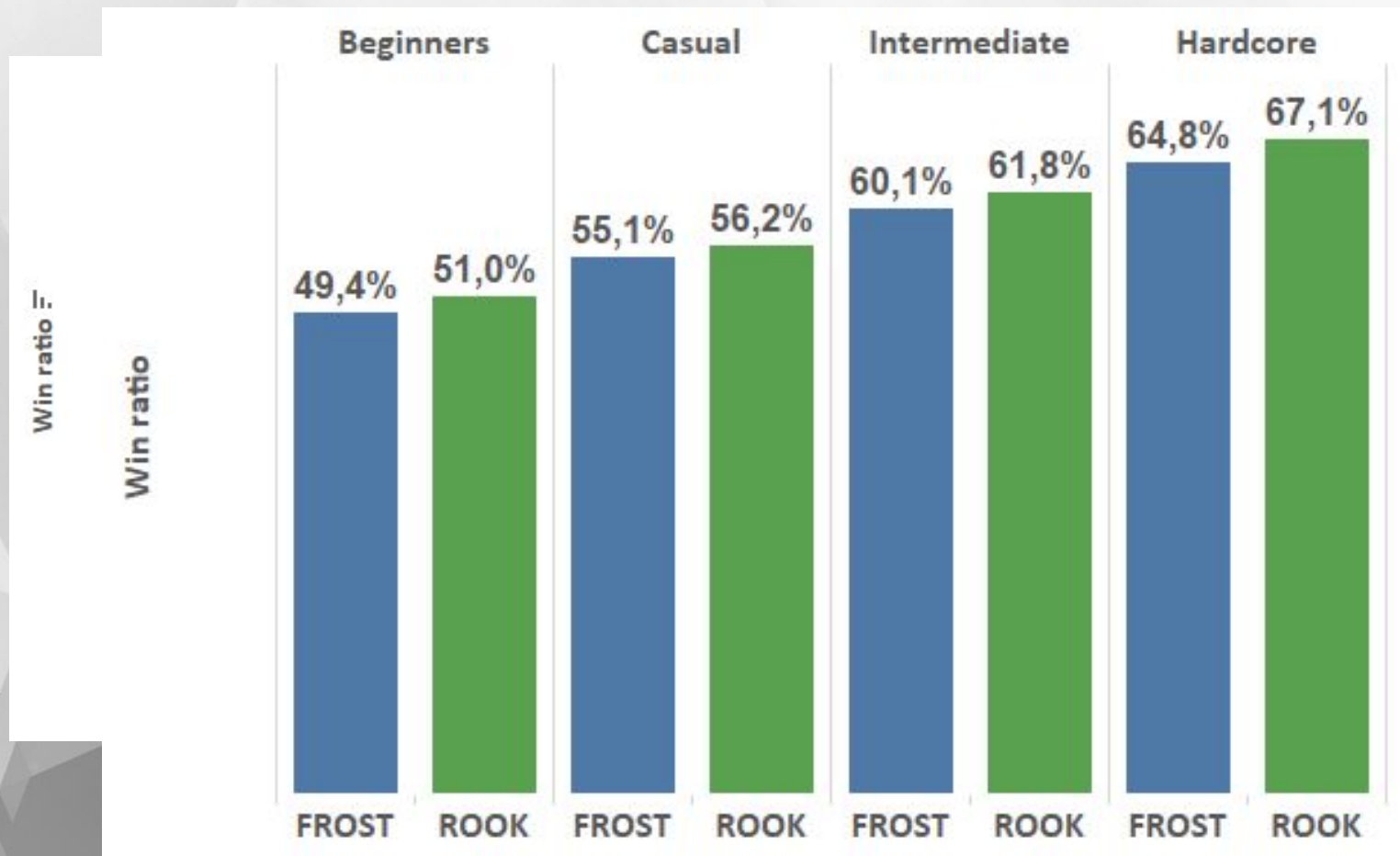


And so you ask
for the wrong reporting

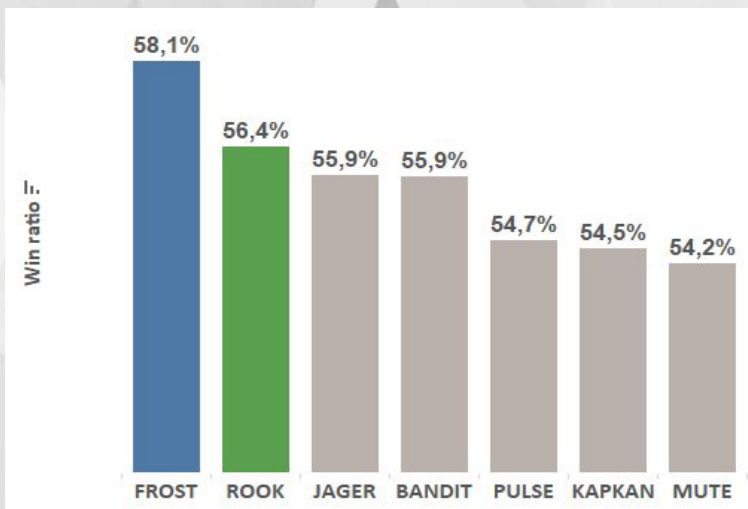
MEET
FROST



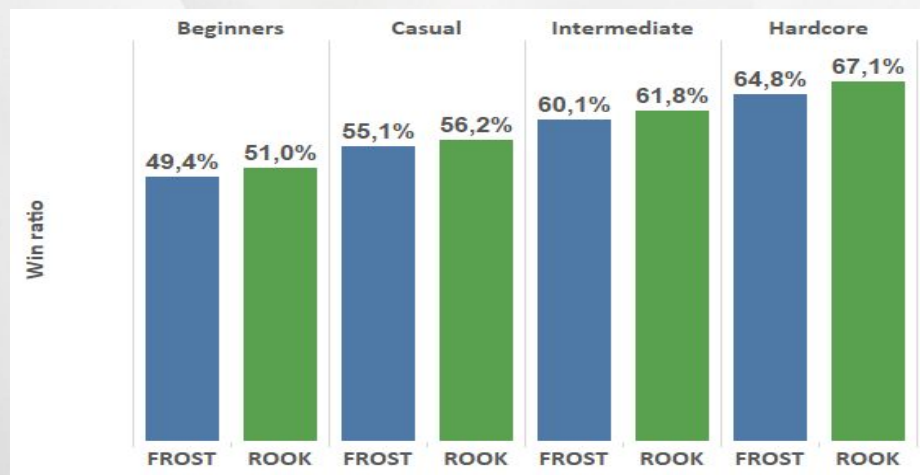
Frost Example – Win ratio



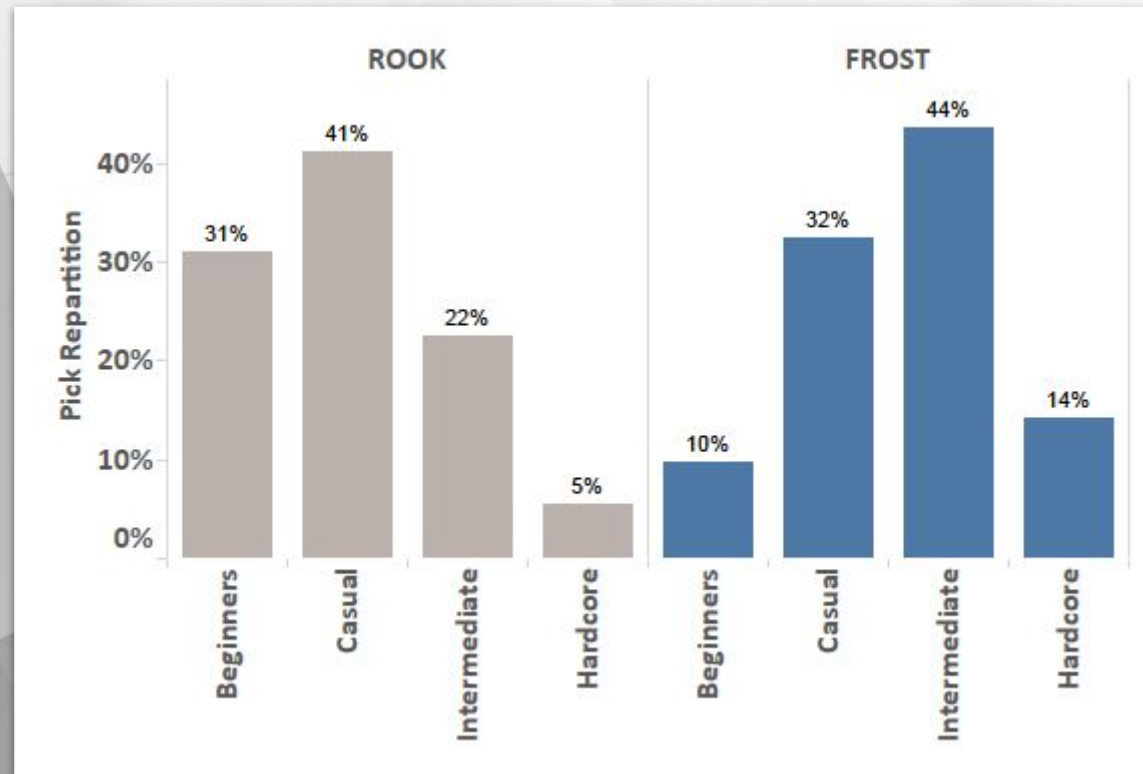
Frost Example – Win ratio



=



Frost Example – Win ratio



Should we let **Analysts** drive
decision when it comes to
Balance?

WELL...

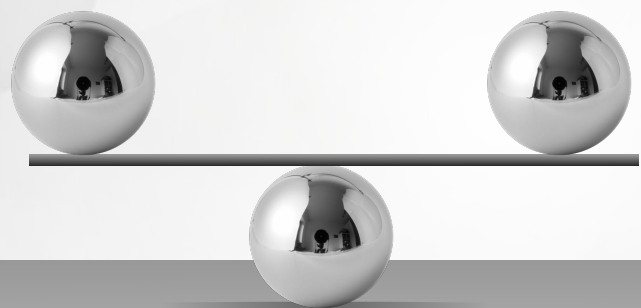


DATA
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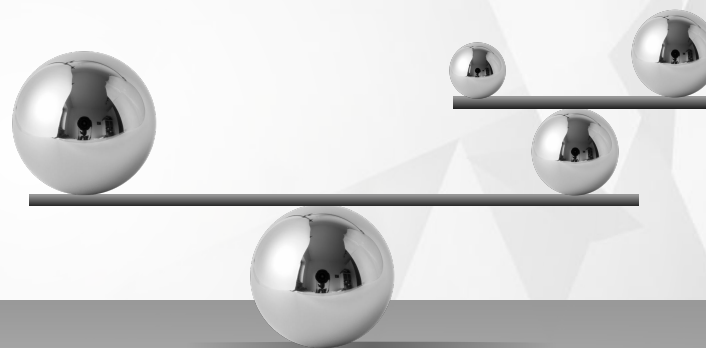
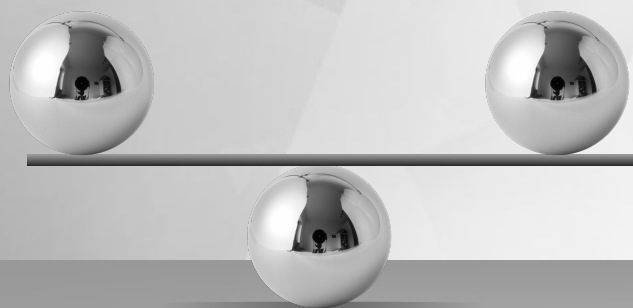


DATA
INFORMED



3 MIN ROUND





WRAP-UP

GDs mostly focus on **Diversity**



Analysts are the best to ensure **Fairness**

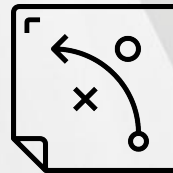


BOTH MAKE GREAT FEATURES



GOALS :

INCREASING DIVERSITY WHILE KEEPING BALANCE



- 2 -

METHODOLOGY



BALANCING PROCESS

DEFINE
PROBLEMS

FIND
CAUSES

VALIDATE
CAUSES

DEFINE
SOLUTIONS

- 1 CHOOSE CONTEXT
- 2 FIND METRICS
- 3 SET PRIORITY

DEFINE
PROBLEMS

FIND CAUSES

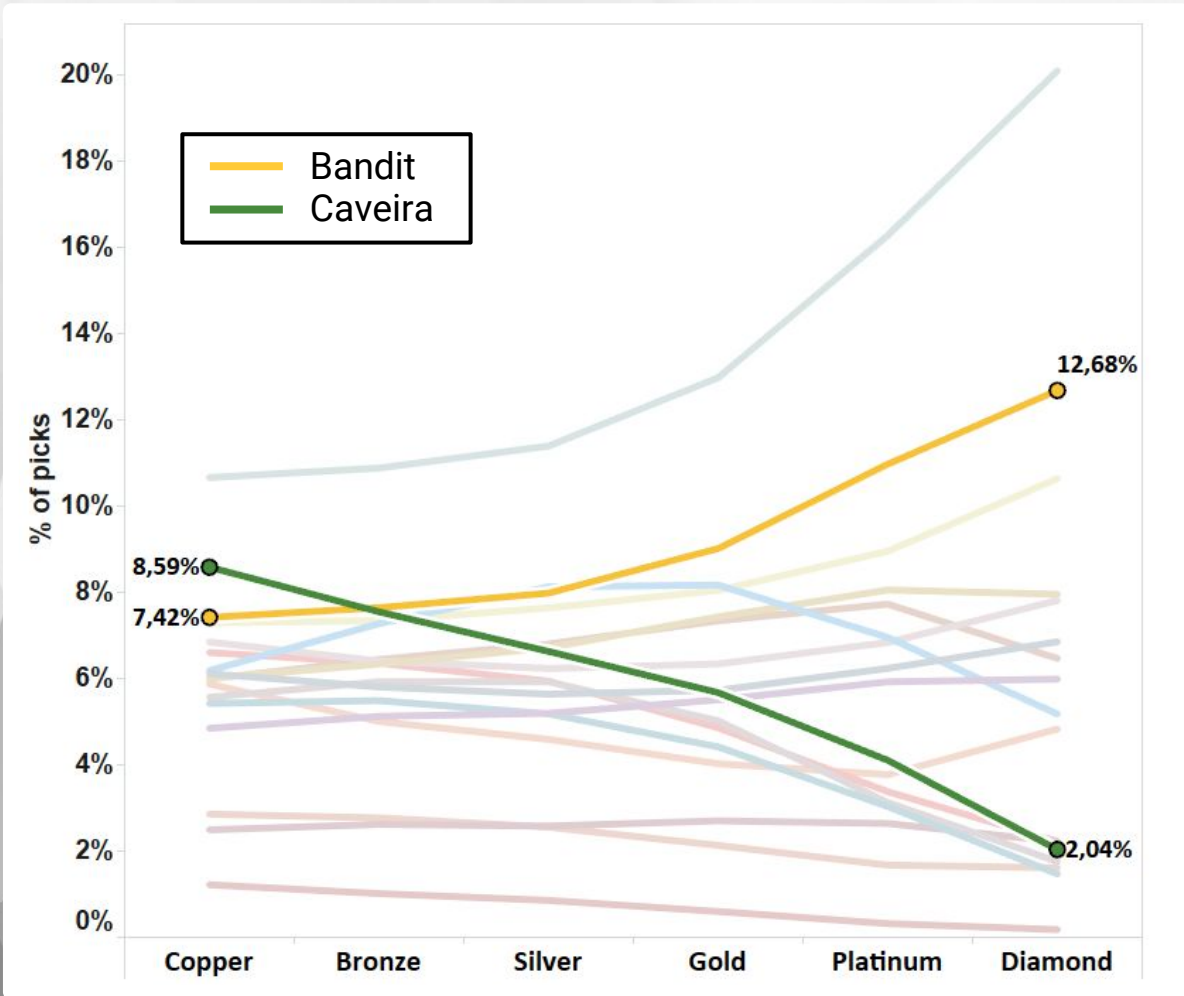
VALIDATE
CAUSES

DEFINE
SOLUTIONS

DEFINE PROBLEMS

CHOOSE
CONTEXT

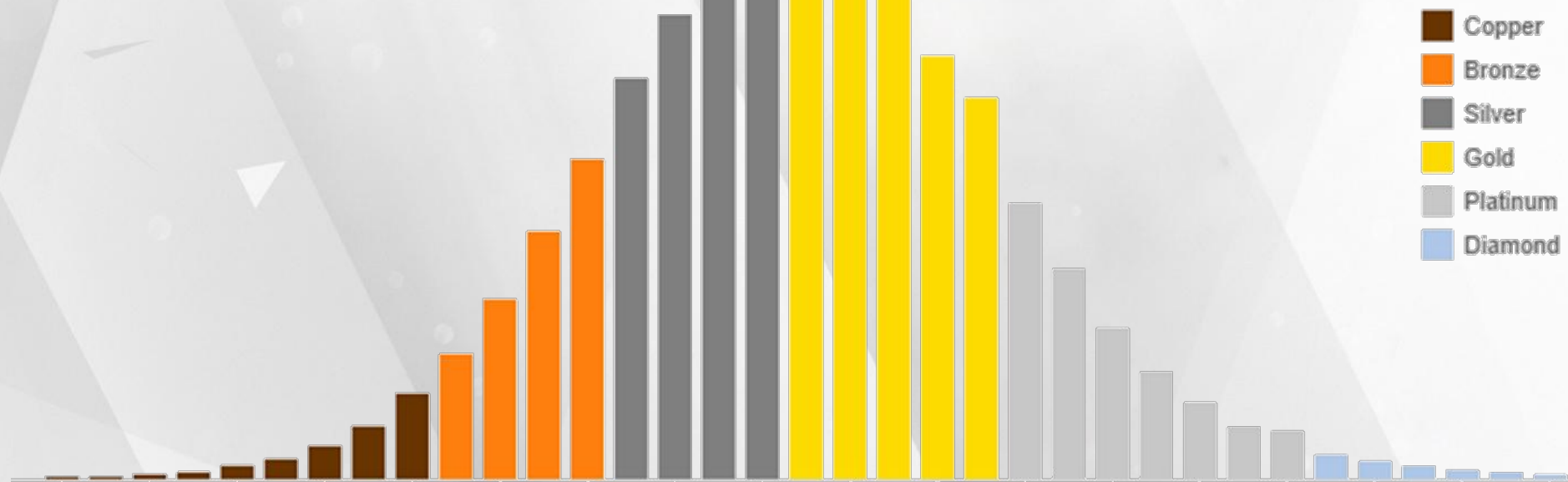
REMEMBER...



Operators pick rates per Skill Rank – Ranked PC – Patch Y2S3



SET A CONTEXT





DEFINE
PROBLEMS

FIND CAUSES

VALIDATE
CAUSES

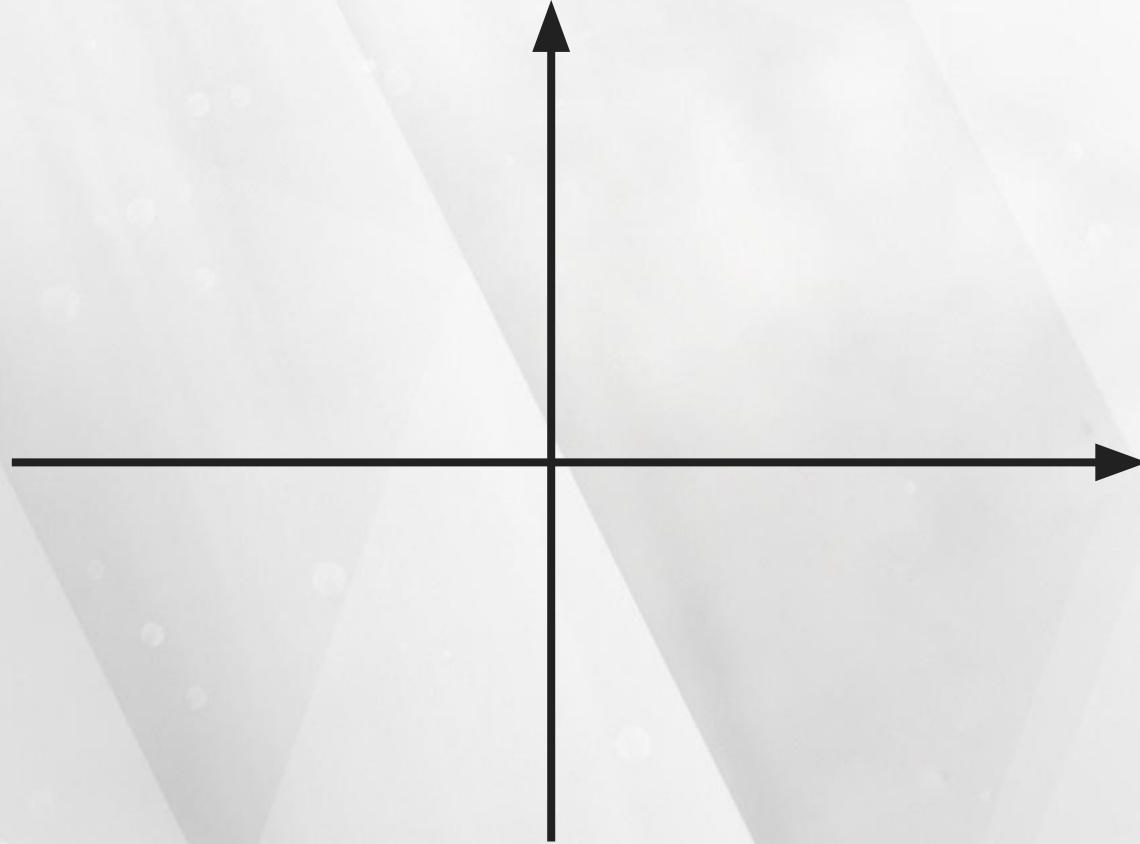
DEFINE
SOLUTIONS

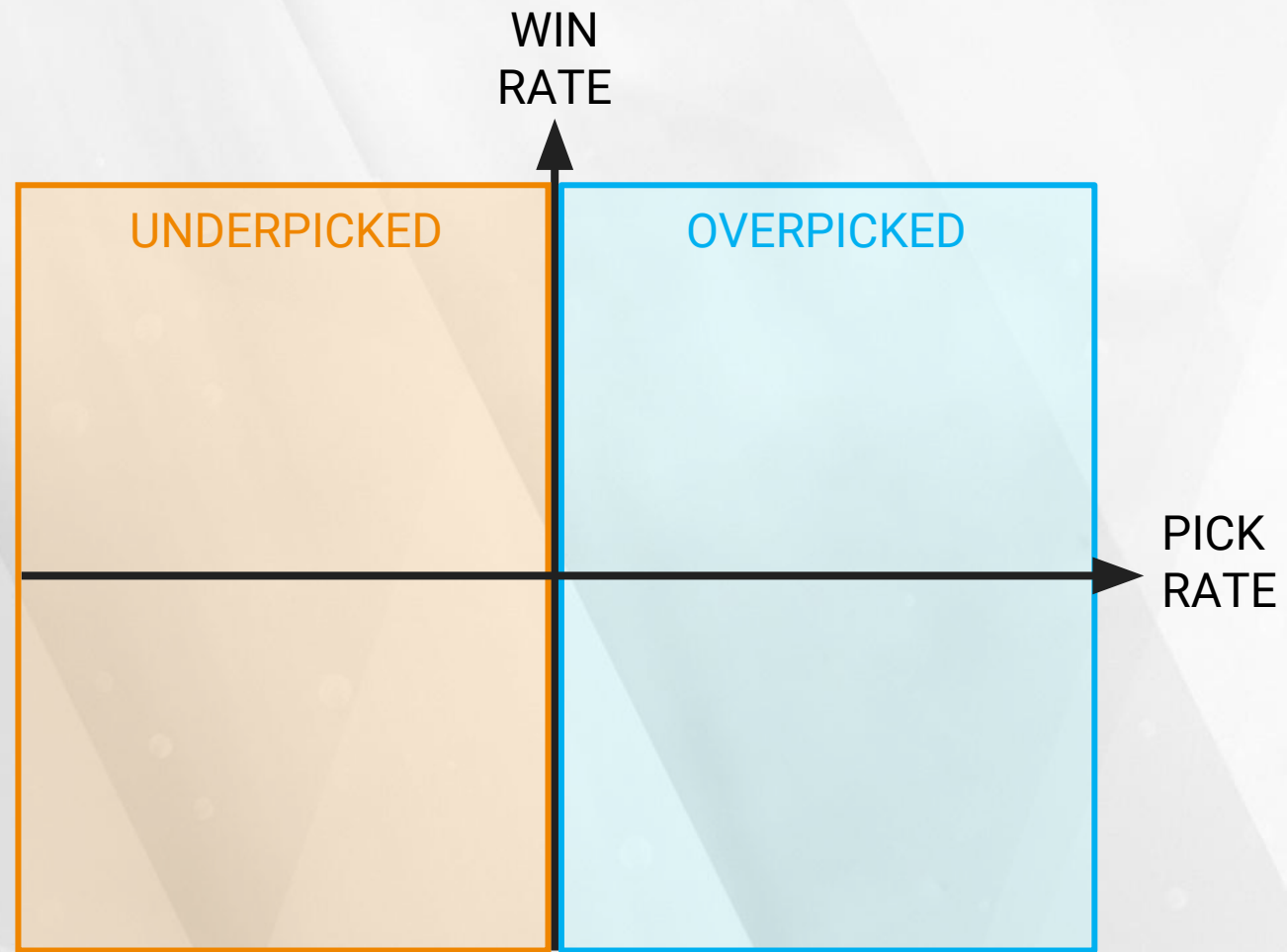
DEFINE PROBLEMS

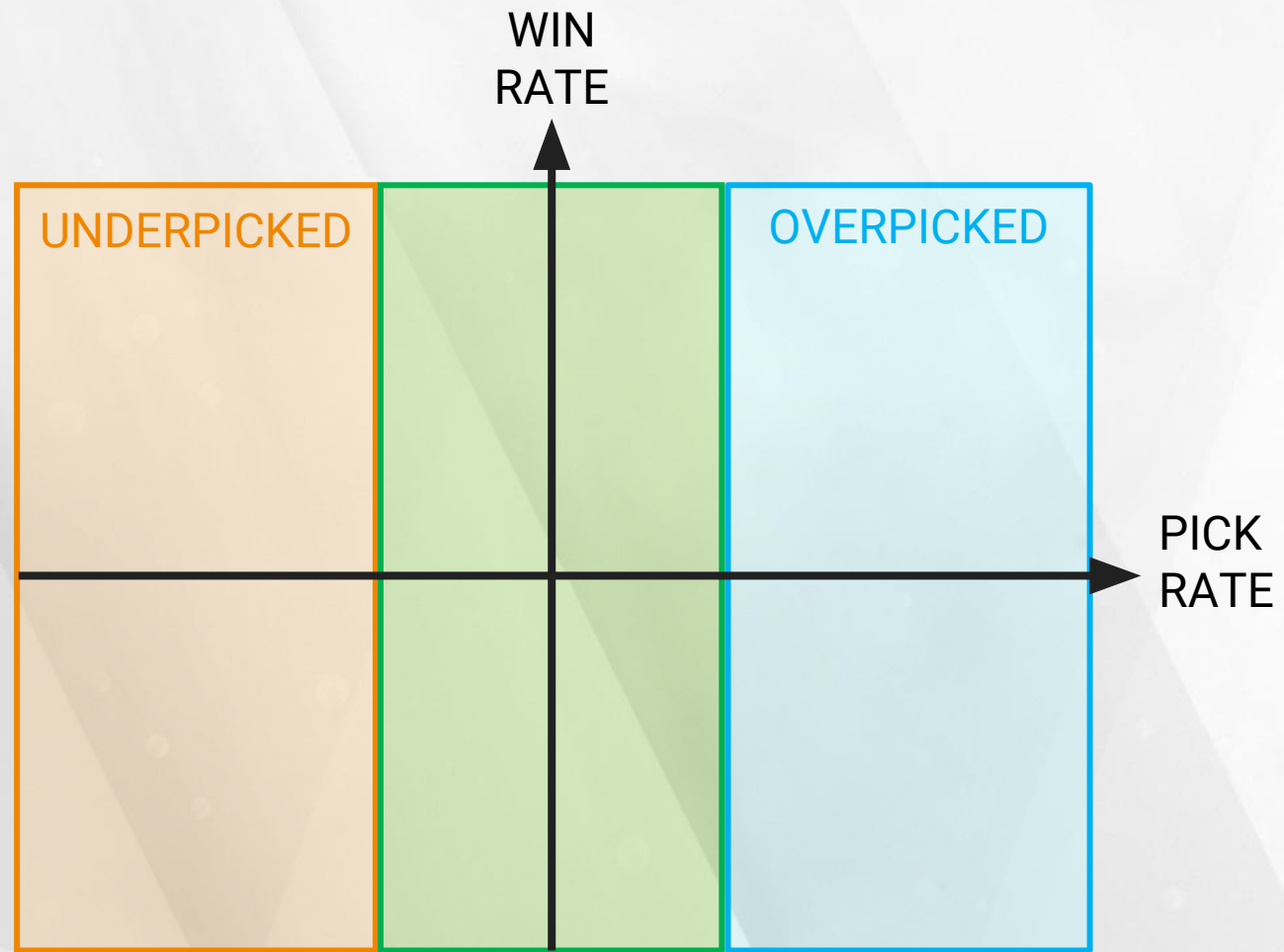
FIND METRICS

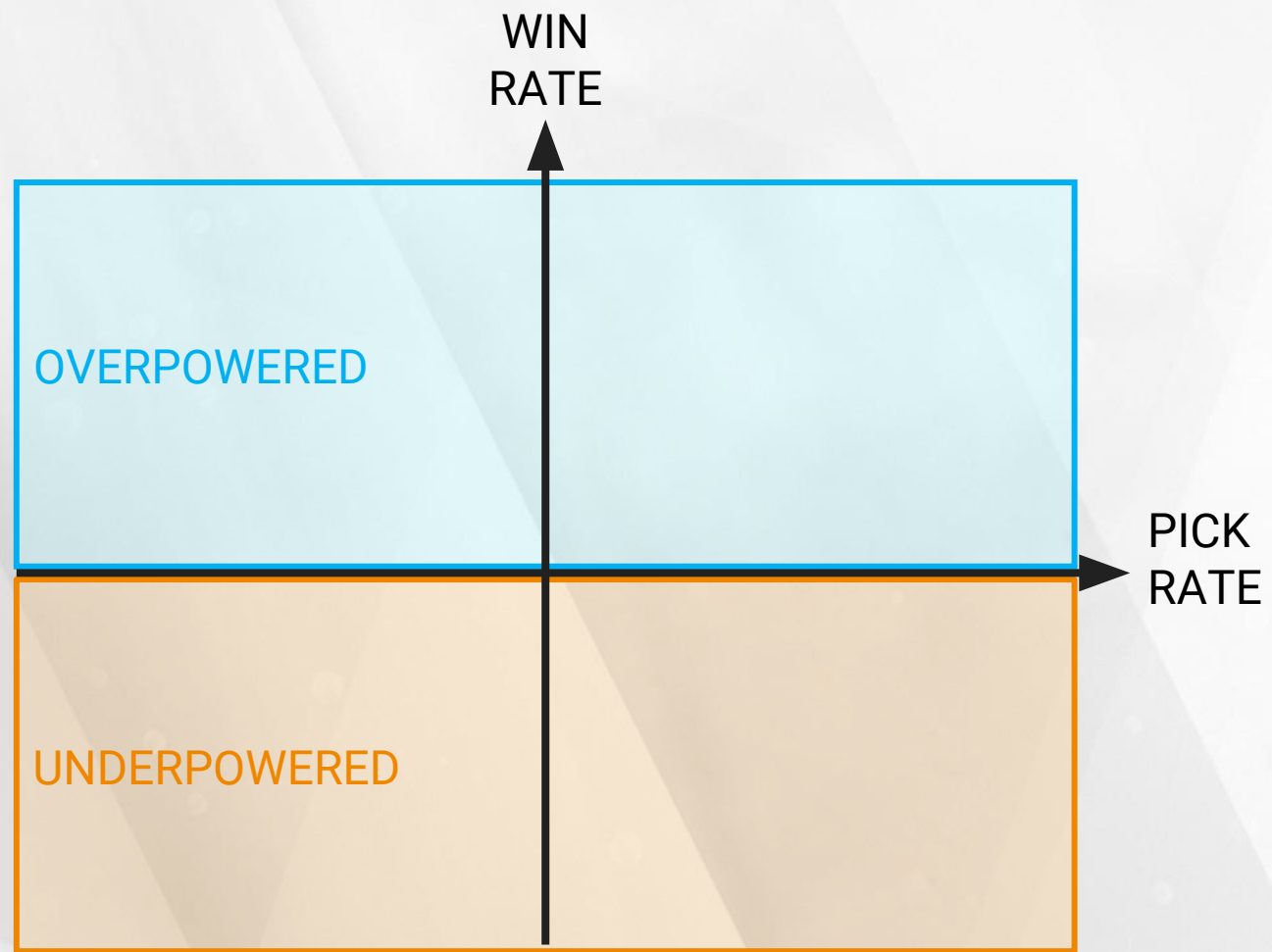
WIN
RATE

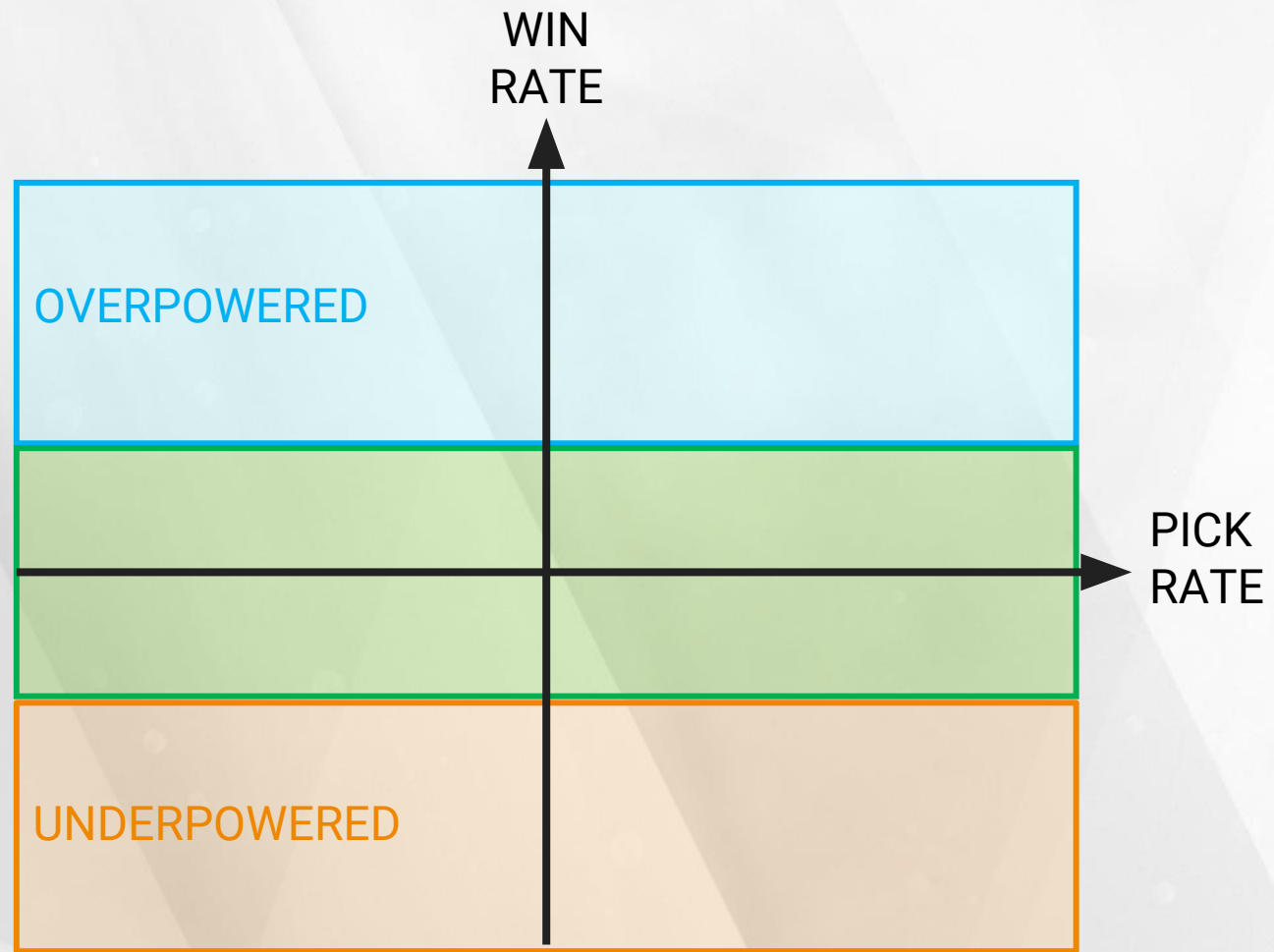
PICK
RATE

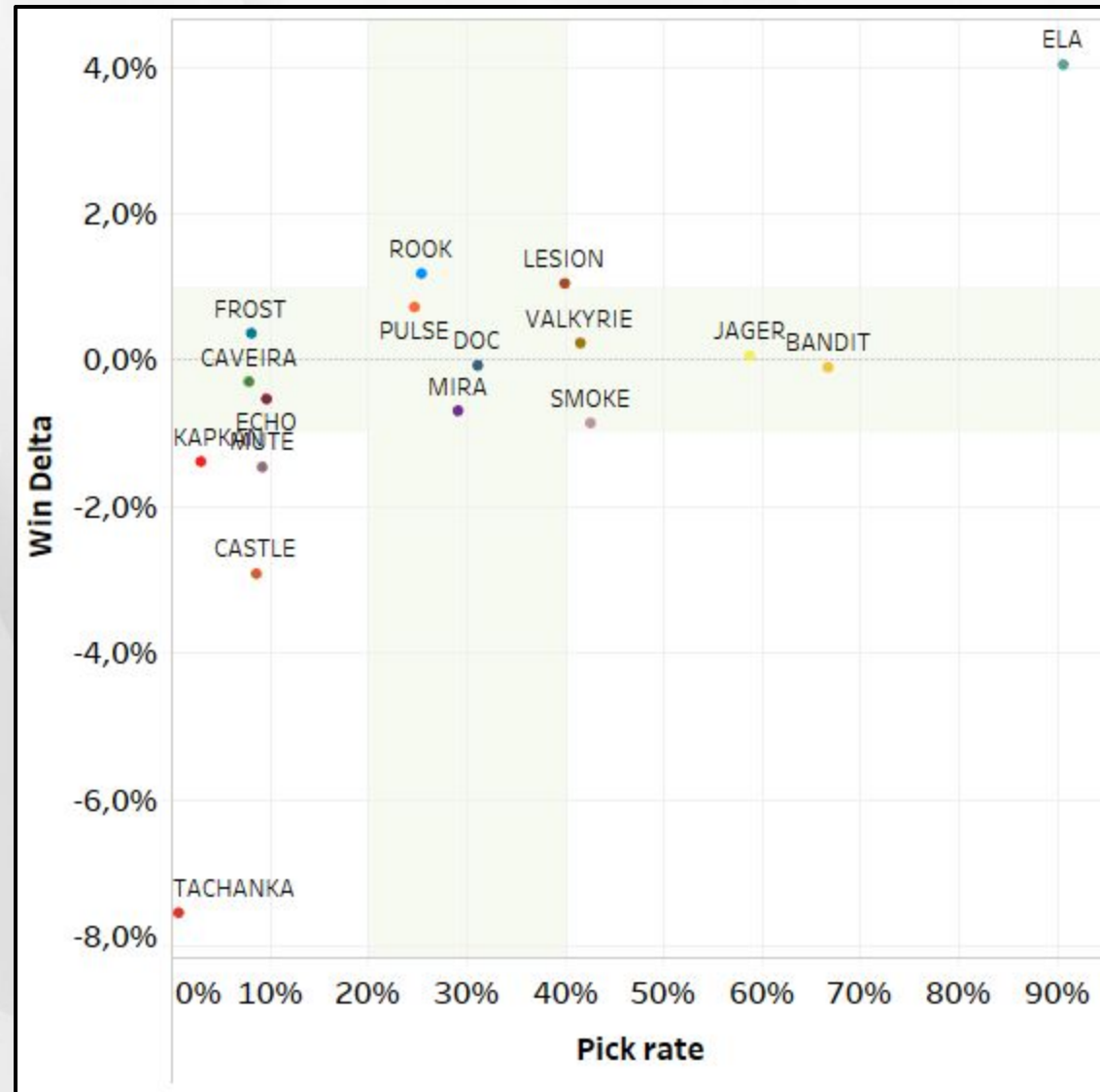












Defenders pick rates vs win delta – Plat+ Ranked PC – Patch Y2S3

DEFINE
PROBLEMS

FIND CAUSES

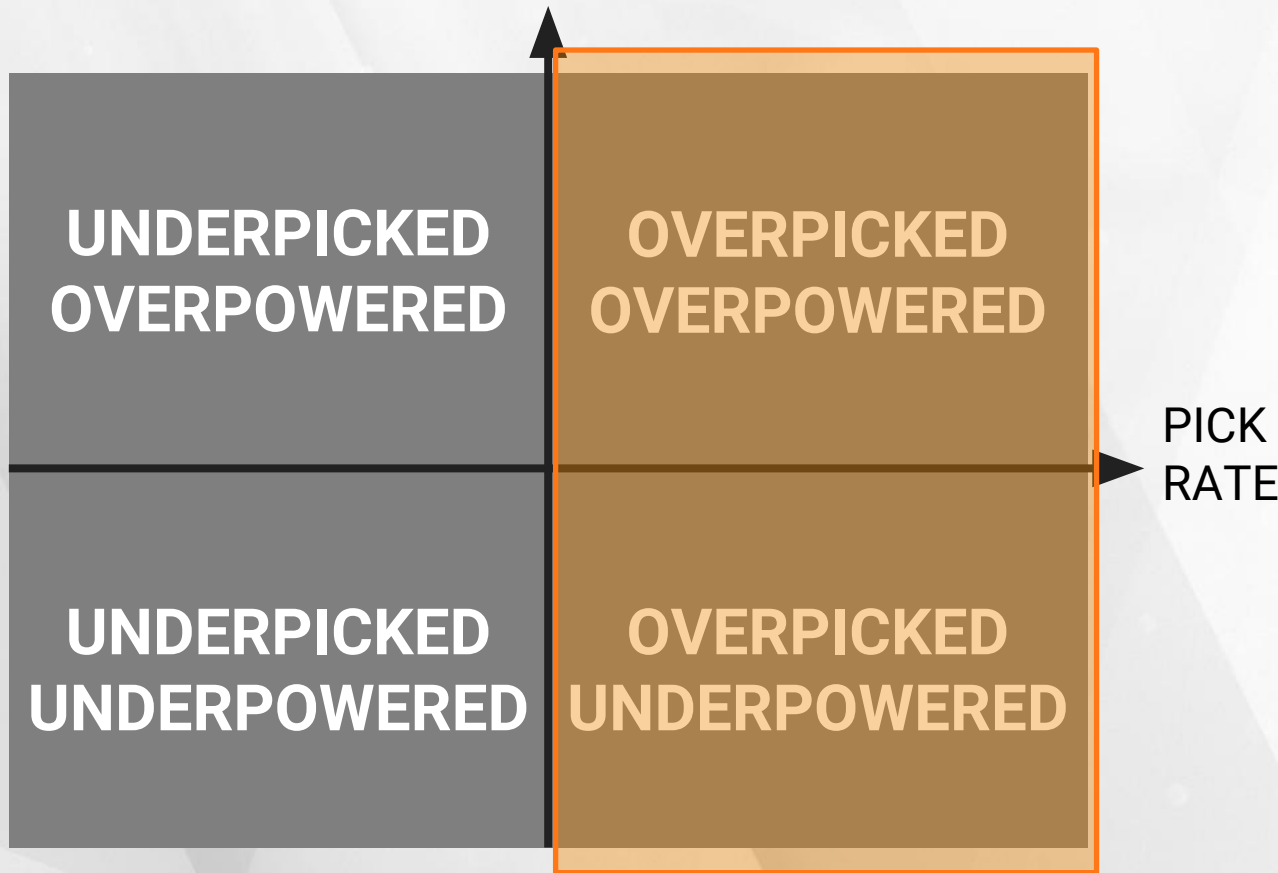
VALIDATE
CAUSES

DEFINE
SOLUTIONS

DEFINE PROBLEMS

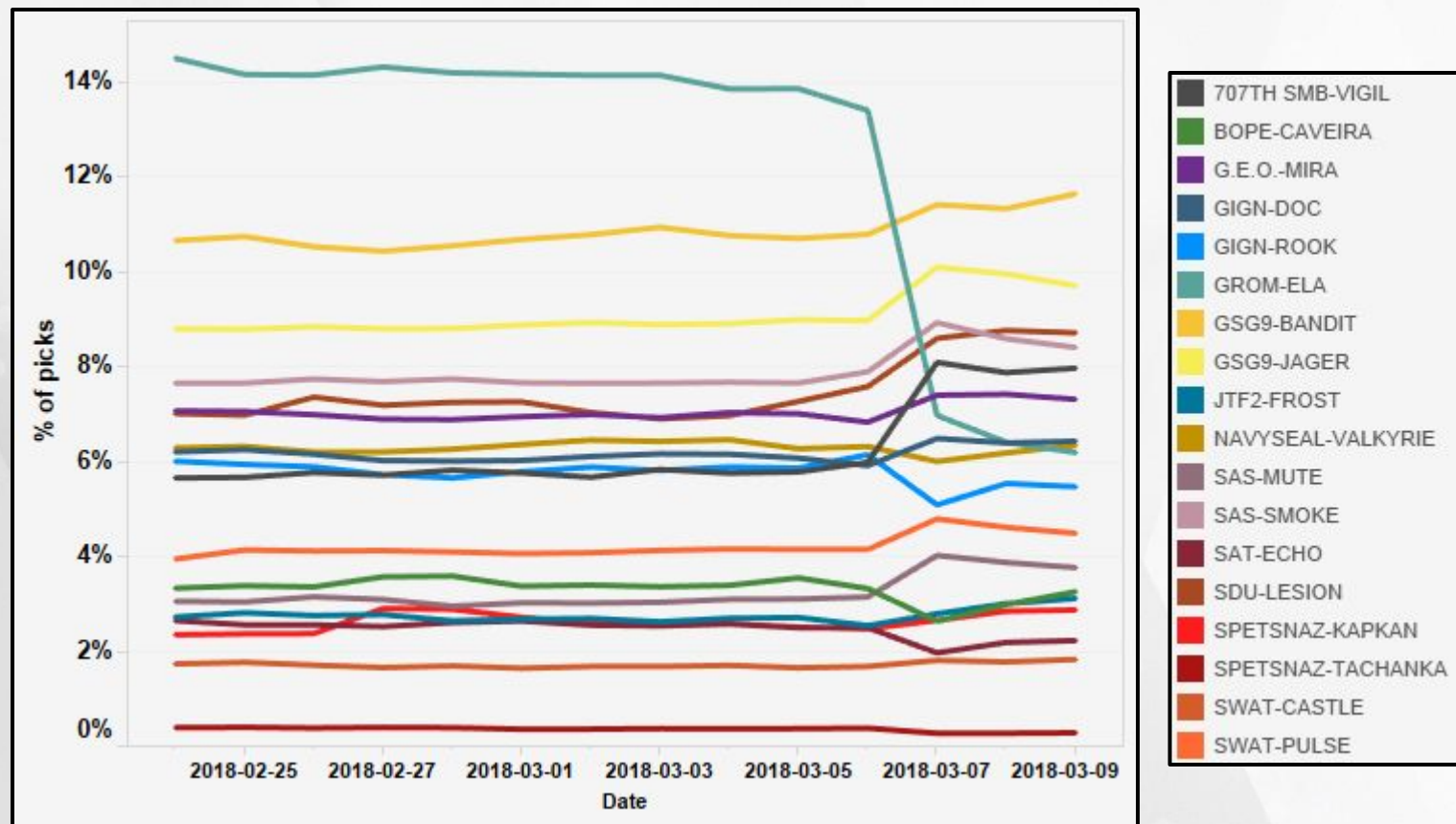
SET
PRIORITY

WIN
RATE



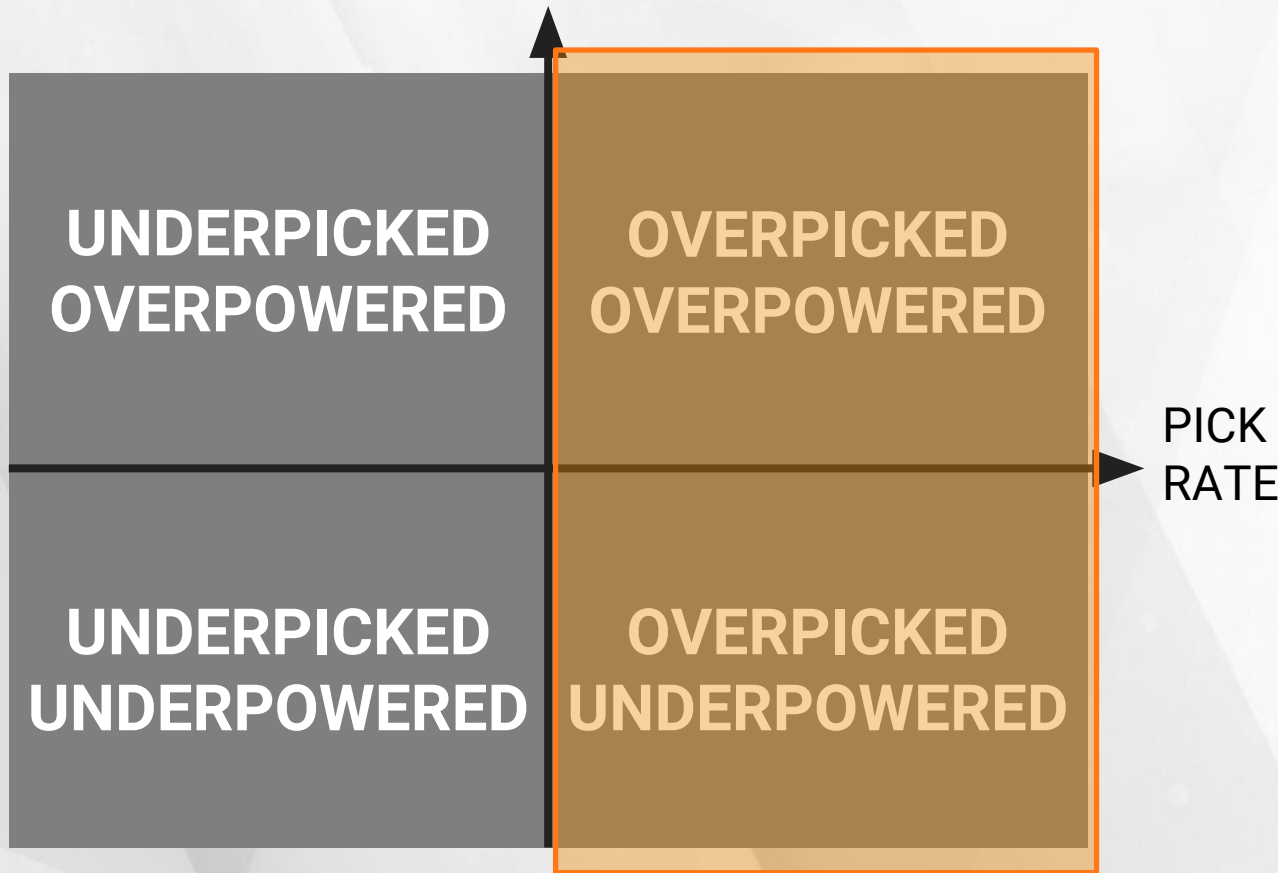
PICK
RATE

HIGHER PRIORITY



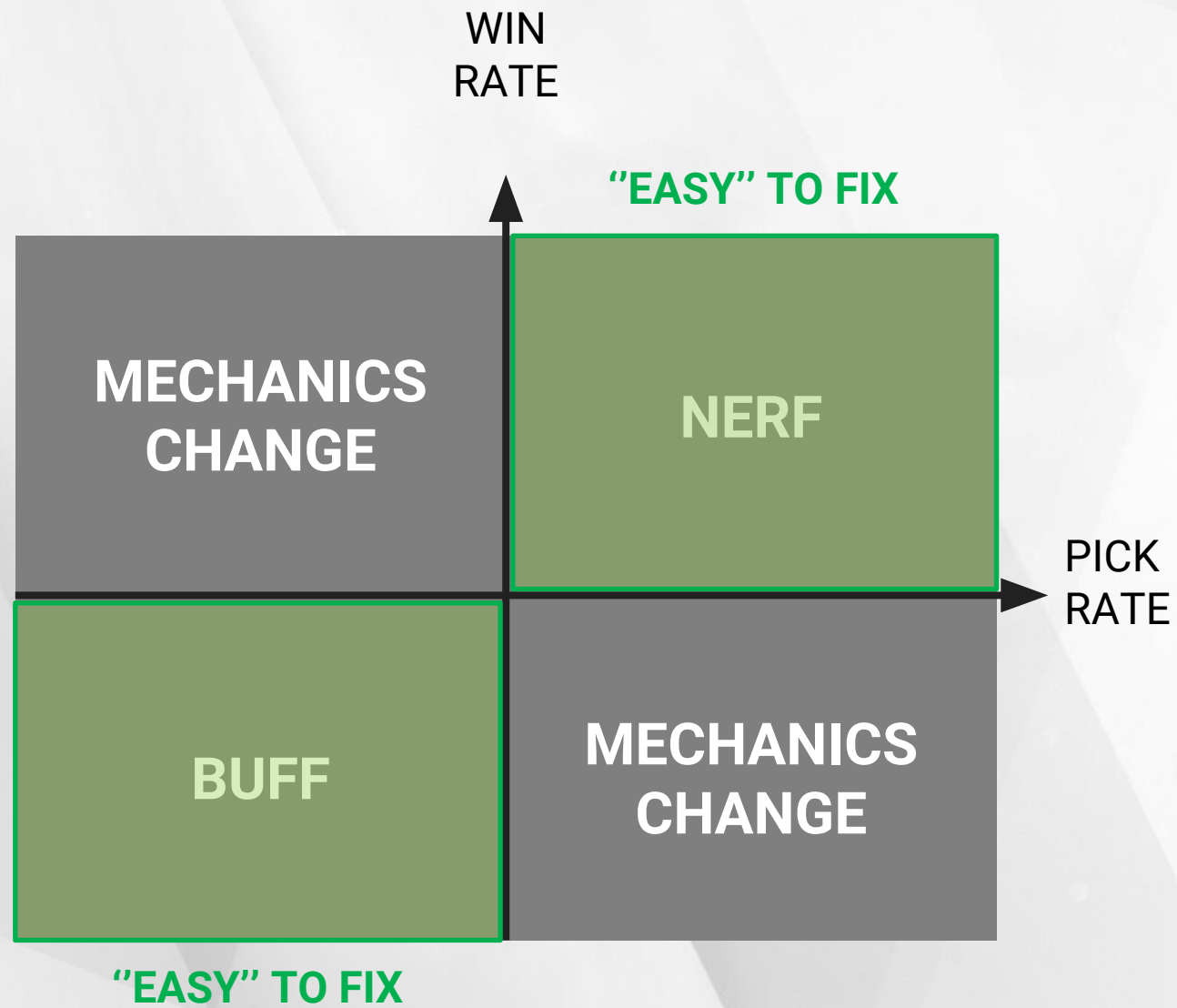
Defenders daily pick rates – Plat+ Ranked PC – Patches Y2S4-Y3S1

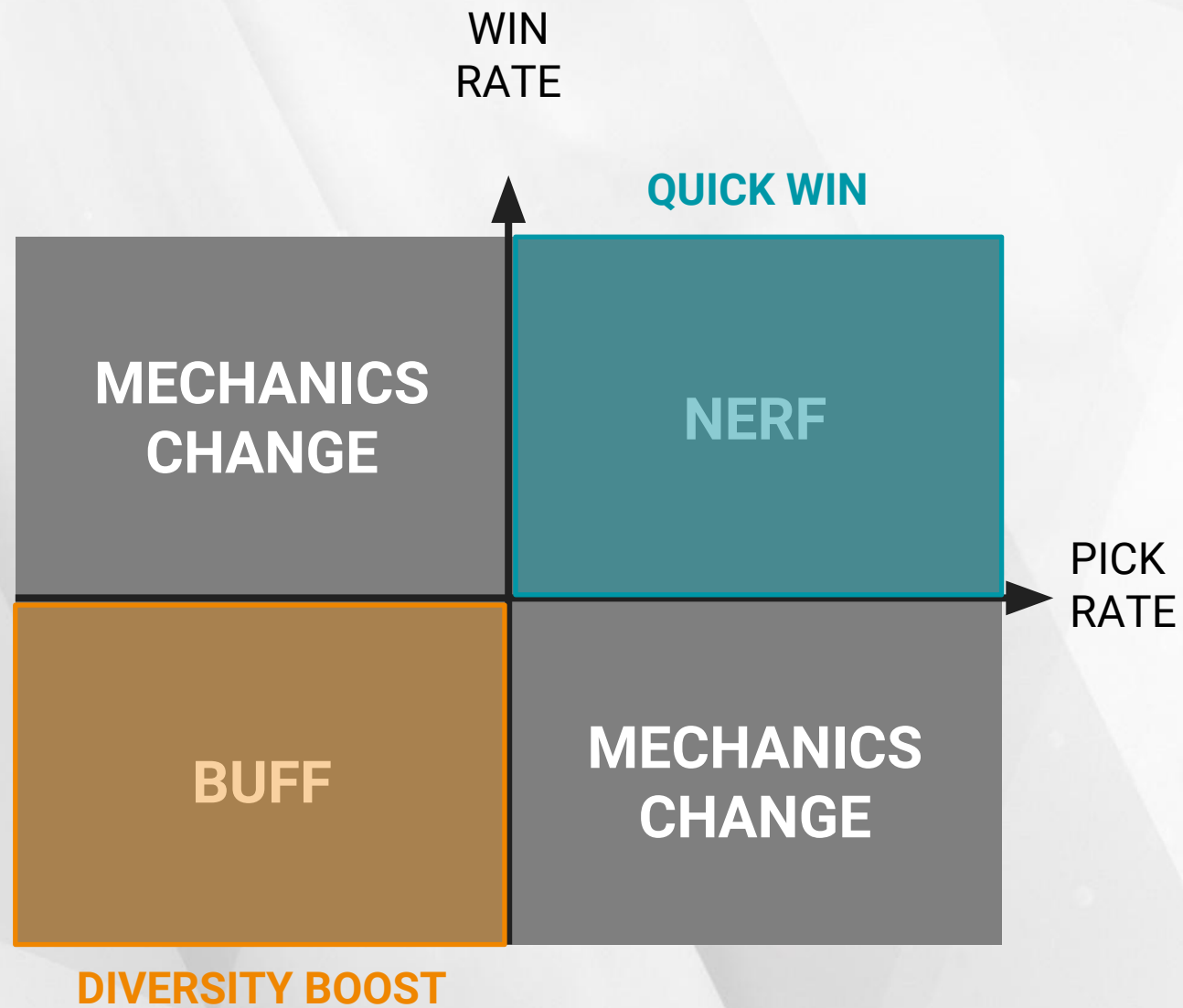
WIN
RATE



PICK
RATE

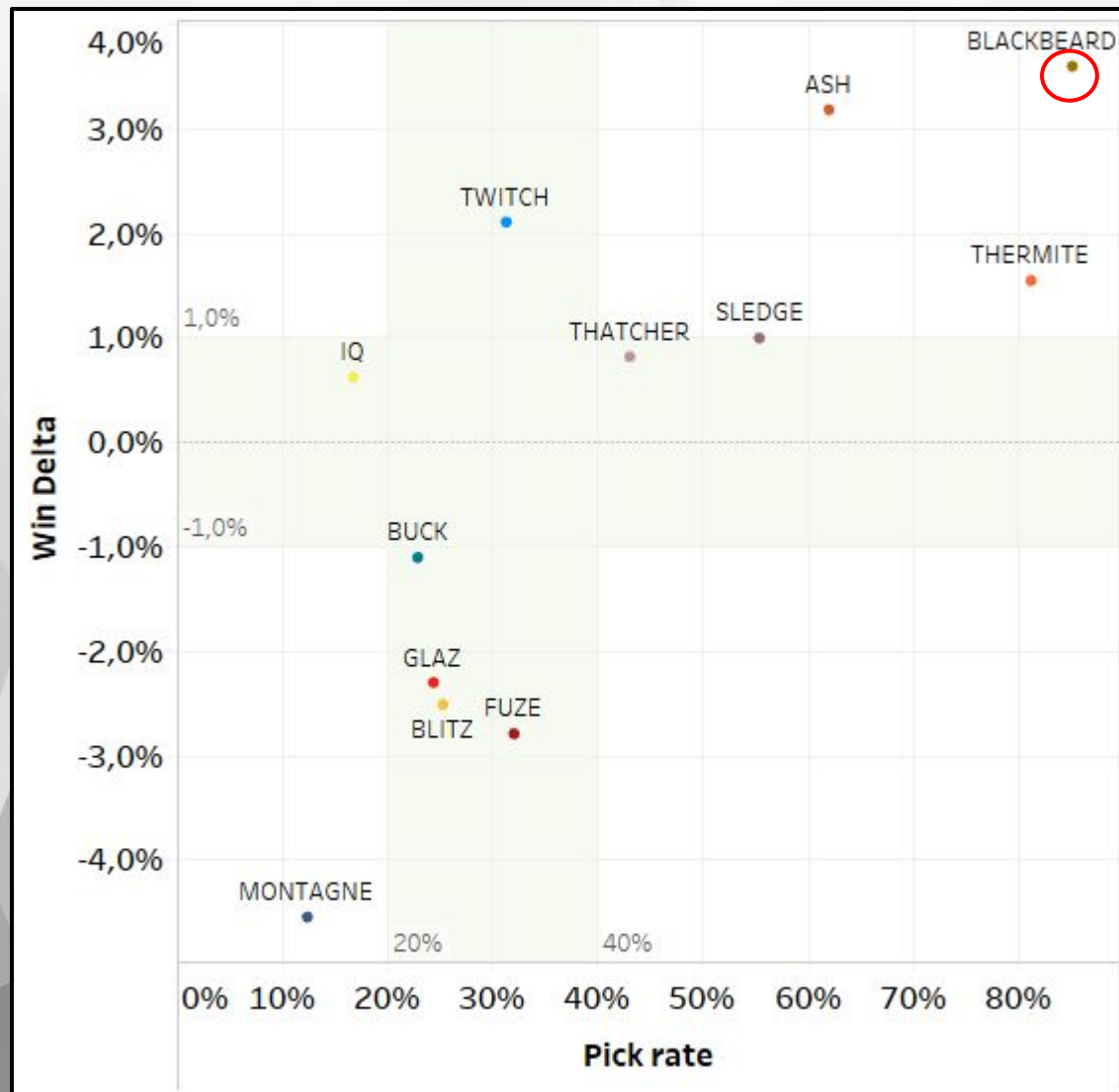
HIGHER PRIORITY





MEET BLACKBEARD





Attackers pick rates vs win delta – Plat+ Ranked PC – Patch Y1S2





DEFINE
PROBLEMS

FIND CAUSES

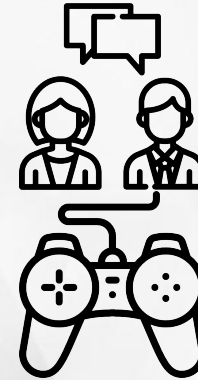
VALIDATE
CAUSES

DEFINE
SOLUTIONS

FIND CAUSES & VALIDATE CAUSES



QUALITATIVE FEEDBACK



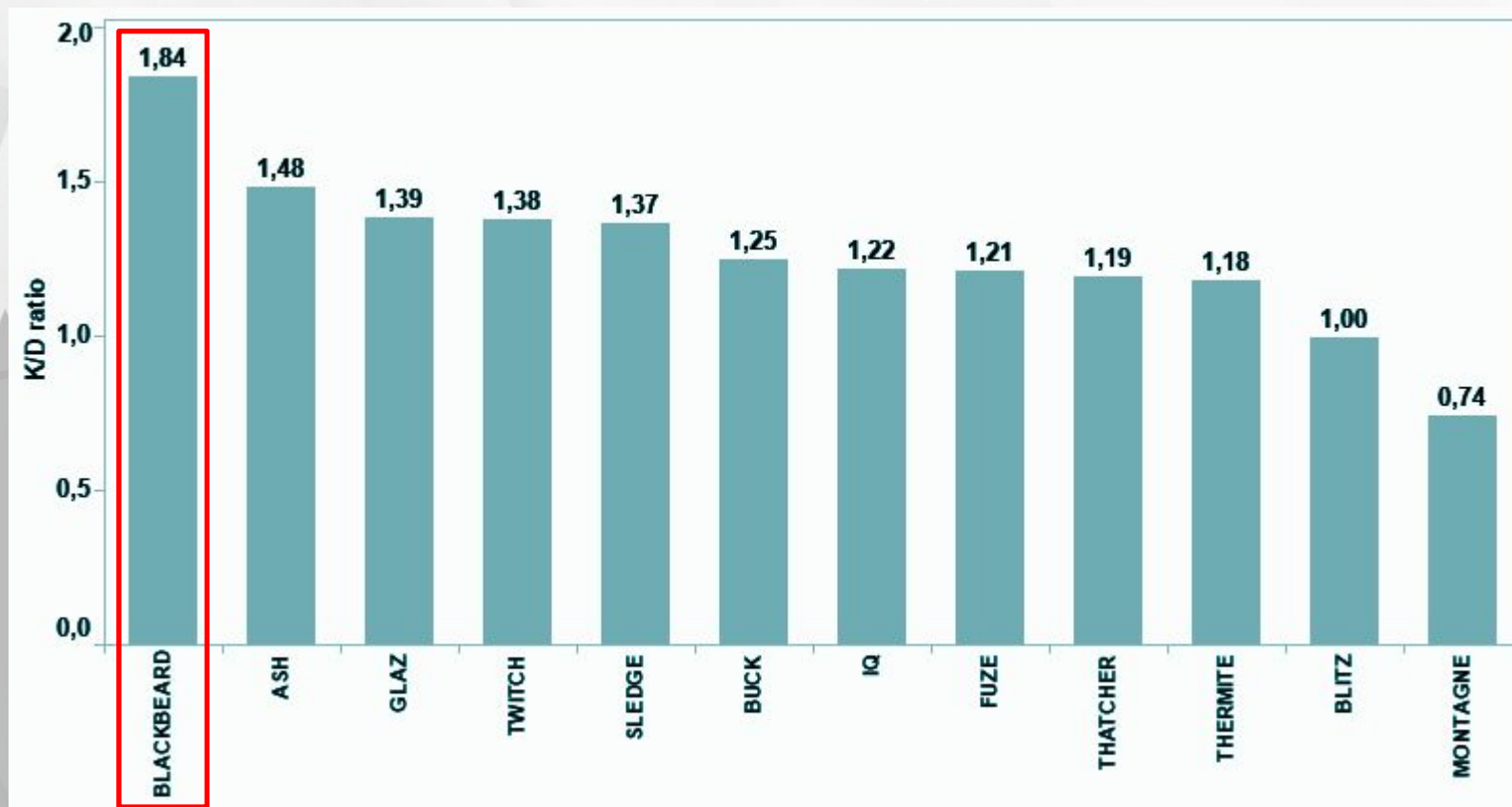
DESIGN PLAYSESSION



HYPOTHESIS

MEET
THE OFFENDER:
THE SHIELD





Attackers Kill/Death ratio – Plat+ Ranked PC – Patch Y1S2



DEFINE
PROBLEMS

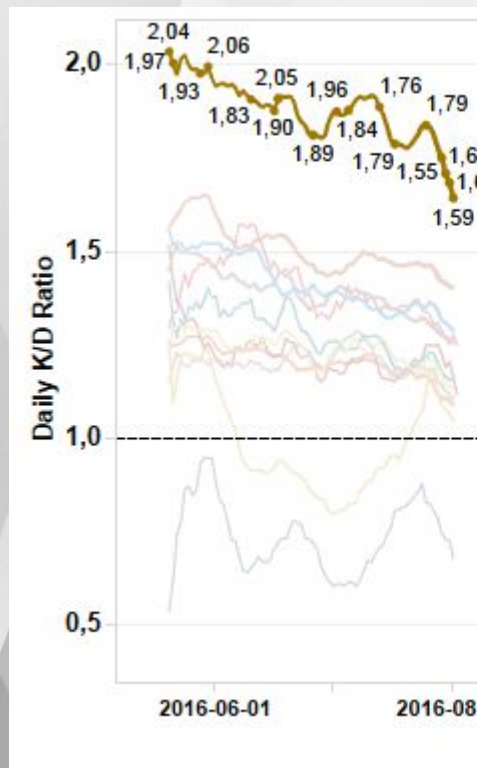
FIND CAUSES

VALIDATE
CAUSES

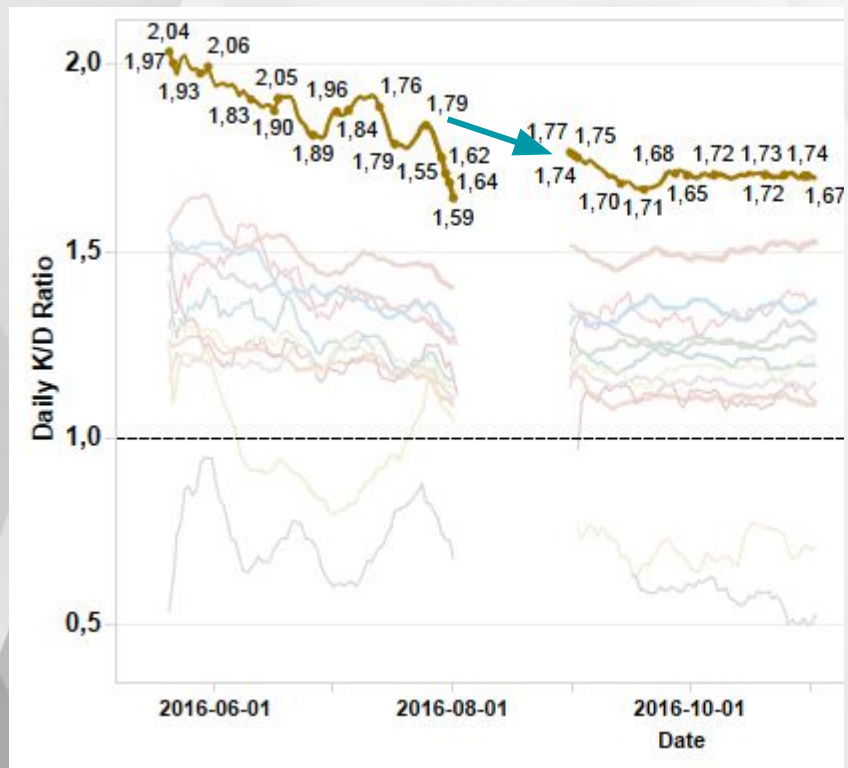
DEFINE
SOLUTIONS

DEFINE SOLUTIONS

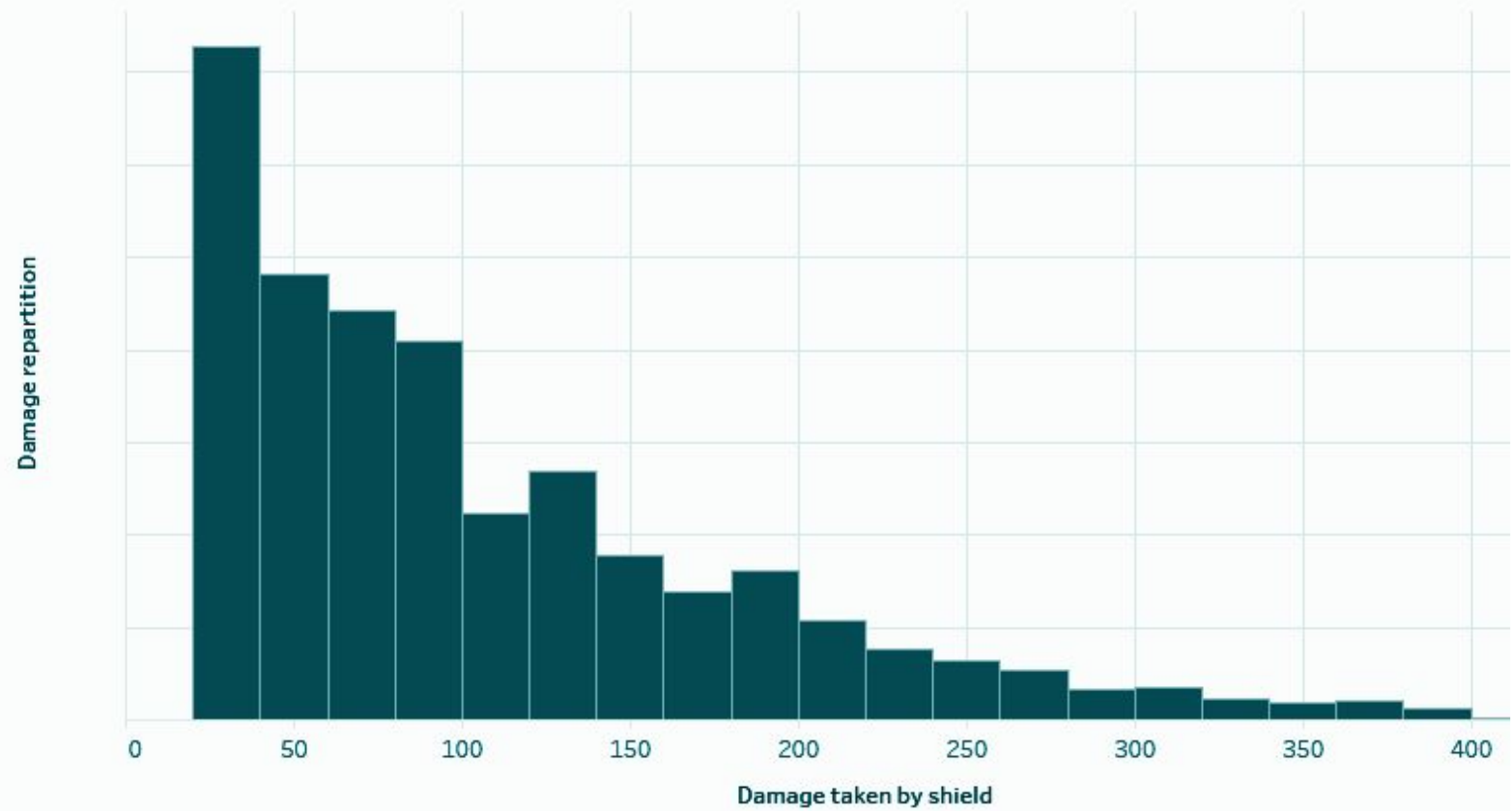
PROBLEM...



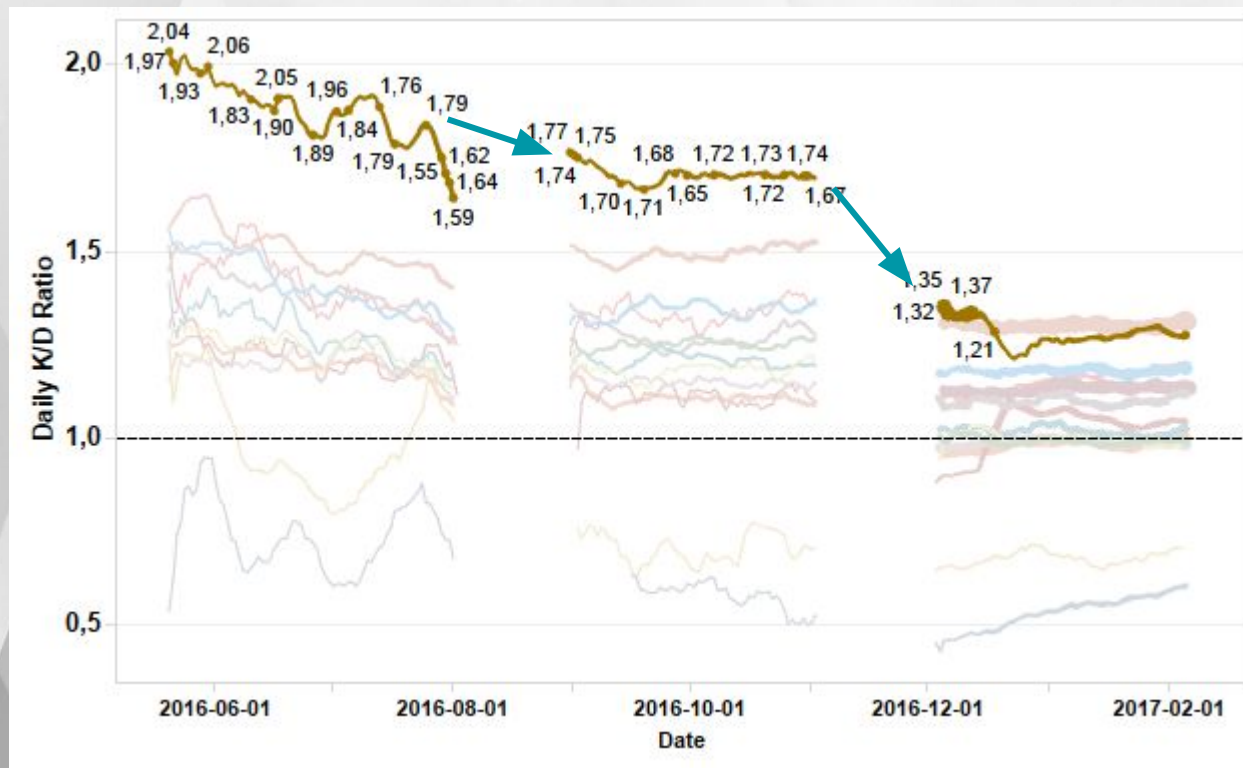
SOLUTION: DESIGNER ONLY...



SOLUTION: ANALYST + DESIGNER...



SOLUTION: ANALYST + DESIGNER...



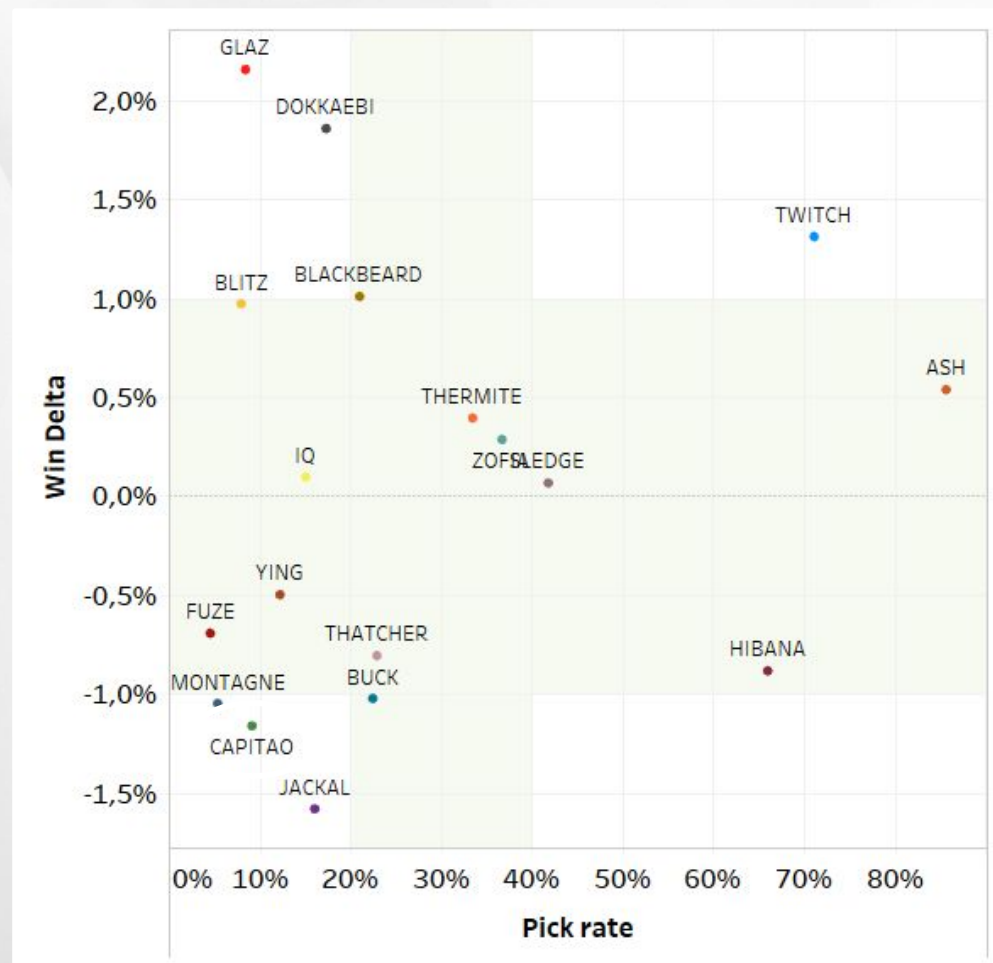
MEET
CAPITAO



EXEMPLE CAPITAO

DEFINE PROBLEMS



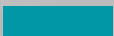
DATA 
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DESIGN 



Attackers pick rates vs win delta – Plat+ Ranked PC – Patch Y2S3

EXEMPLE CAPITAO




►► FIND
CAUSES

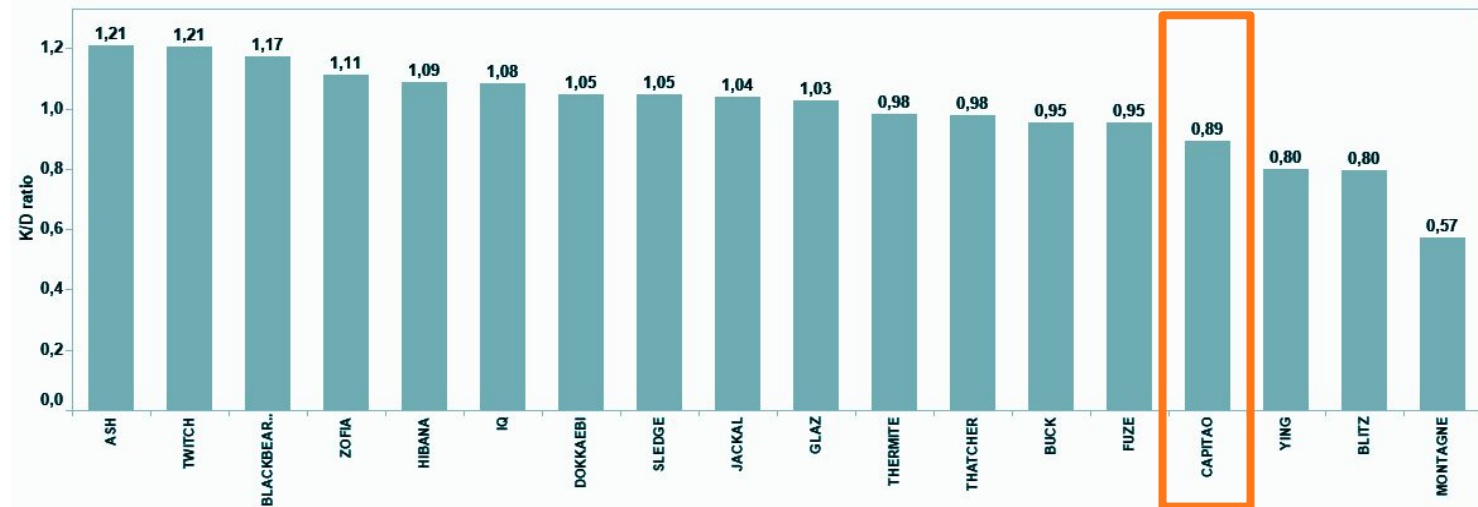
DATA 
QUALI 
DESIGN 



EXEMPLE CAPITAO

▶▶ VALIDATE
CAUSES




DATA 
QUALI 
DESIGN 



EXAMPLE CAPITAO

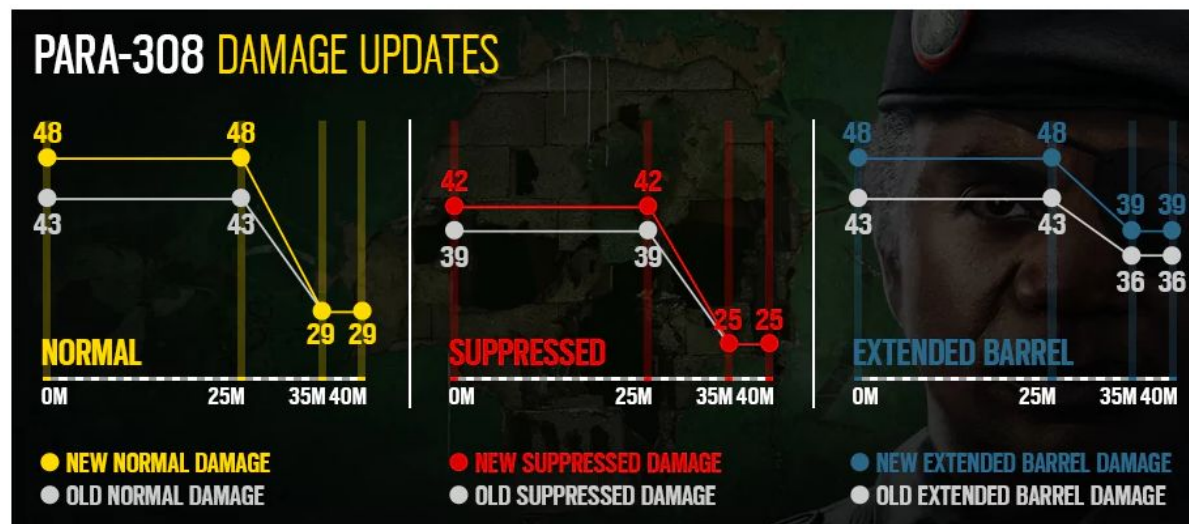


DEFINE SOLUTION

DATA 
QUALI 
DESIGN 




Capitao's Para-308 buff




We increased the Para-308's raw damage is to 48 (from 43). We also slightly reduced the intensity of the random components of its recoil.






Game Designer notes: Capitao right now is not attractive enough. His gadget suffers from a few issues that will need long-term solutions, but in the meantime, it's clear that his main assault rifle is too weak.

RECAP

DATA 
QUALI 
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DATA 
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DEFINE
PROBLEMS

FIND
CAUSES

VALIDATE
CAUSES

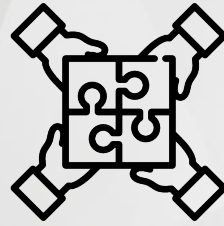
DEFINE
SOLUTIONS

FOLLOW
UP

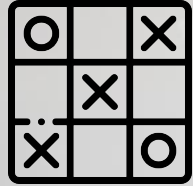
- 4 -

CONCLUSION





Features are **OWNED** by both
GAME DESIGNERS and **ANALYSTS**



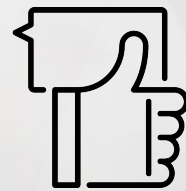
FUN
≠
BALANCED



COMMUNICATION
IS THE KEY

- 5 -

QUESTIONS?



Thank you!



INTELLIGENCE GAME DESIGN

Geoffroy Mouret
Data Scientist

Leroy Athanassoff
Game Director