

# DEVOPS FOR FRONTEND BEYOND DESKTOP BROWSERS

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**HI'S**

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<sup>1</sup> or Massimiliano if you like Italian spelling challenges

# AGENDA

- » Beyond Desktop Browsers
- » The Journey to DevOps
- » DevOps for Frontend

**BEYOND  
DESKTOP  
BROWSERS**

# DAZN

# LIVE SPORT STREAMING



# 25+

## HTML-BASED

### DEVICES SUPPORTED

» TVs

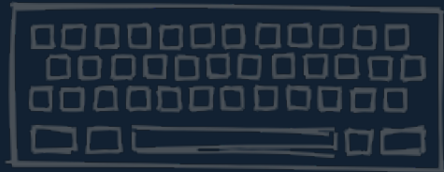
» Gaming Console

» Set-top boxes

» ...more

# WORKFLOW

FEATURES  
TEAMS



DEVICES  
TEAMS

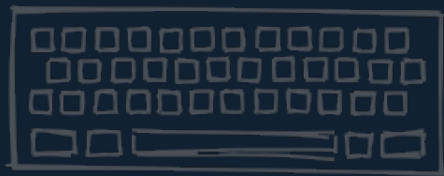


CUSTOMERS

# CHALLENGE #1

## SLOW FEEDBACK LOOP

FEATURES  
TEAMS



DEVICES  
TEAMS



CUSTOMERS

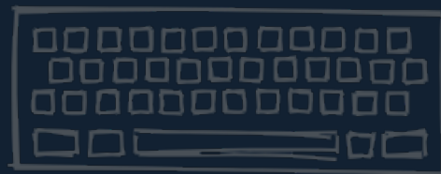


# CHALLENGE #2

## WORK VISIBILITY

FIRST  
JIRA BOARD

FEATURES  
TEAMS



SECOND  
JIRA BOARD

DEVICES  
TEAMS



CUSTOMERS

# CHALLENGE #3

## DEVICES TEAMS CAN'T FIX ISSUES PROPERLY



# CHALLENGES

# RECAP

- » Slow Feedback Loop
- » Work Visibility
- » Device Teams Ownership

# THE JOURNEY TO DEVOPS

“The First Way emphasizes the performance of the entire system, as opposed to the performance of a specific silo of work or department.”

Gene Kim, The DevOps HandBook

# FROM CODE TO CUSTOMERS

FEATURES  
TEAMS



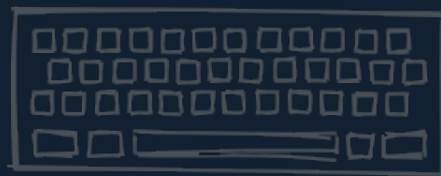
DEVICES  
TEAMS



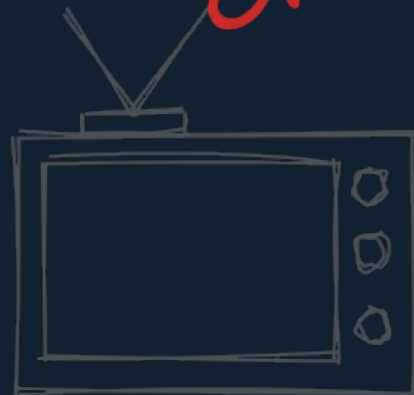
CUSTOMERS

# WE'VE BEEN HERE BEFORE

FEATURES  
DEVELOPMENT  
TEAMS



DEVICES  
OPERATIONS  
TEAMS



CUSTOMERS

**HOW DID WE ARRIVE TO  
TODAY'S DEVOPS?**



# THE POWER OF ABSTRACTION

DevOps is here because of abstractions. Call them Cloud Providers like AWS<sup>a</sup> or GCP<sup>b</sup>, call them Tools like Chef, Puppet, Ansible or Terraform, but without them, would we have this conference?

<sup>a</sup> Amazon Web Services

<sup>b</sup> Google Cloud Platform

# WHICH ABSTRACTIONS DO WE NEED?

ALEX MARTELLI, THE TOWER OF ABSTRACTIONI (TALK)

**DEVOPS  
FOR  
FRONTEND**

THE PAIN POINTS

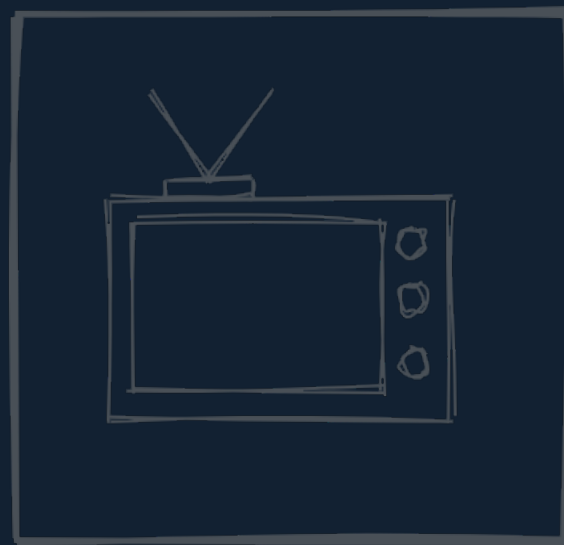
# DEVICES DIFFERENCIES



TV PLATFORM TEAM

# EASE DEVICES DIFFERENCIES

Enable Feature Teams to dev & deploy autonomously



ABSTRACTION #1

# BUILDTIME - TOOLS

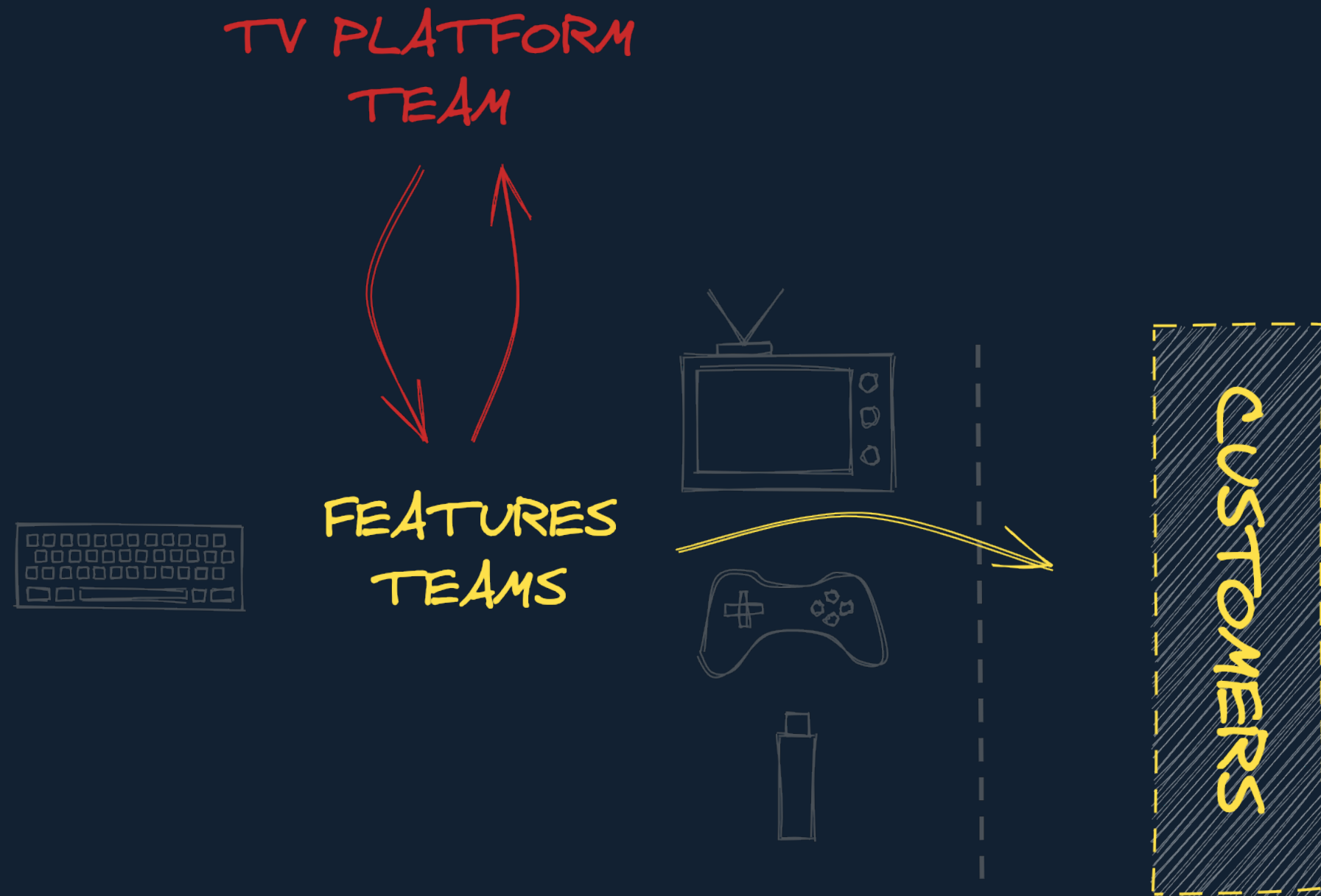
- » Develop on device
- » Debugging on device
- » Monitoring
- » Test Automation on device (TV Lab)

# ABSTRACTION #2

# RUNTIME

- » Remotes & Controllers
- » Device APIs
- » Networking
- » Background/Foreground

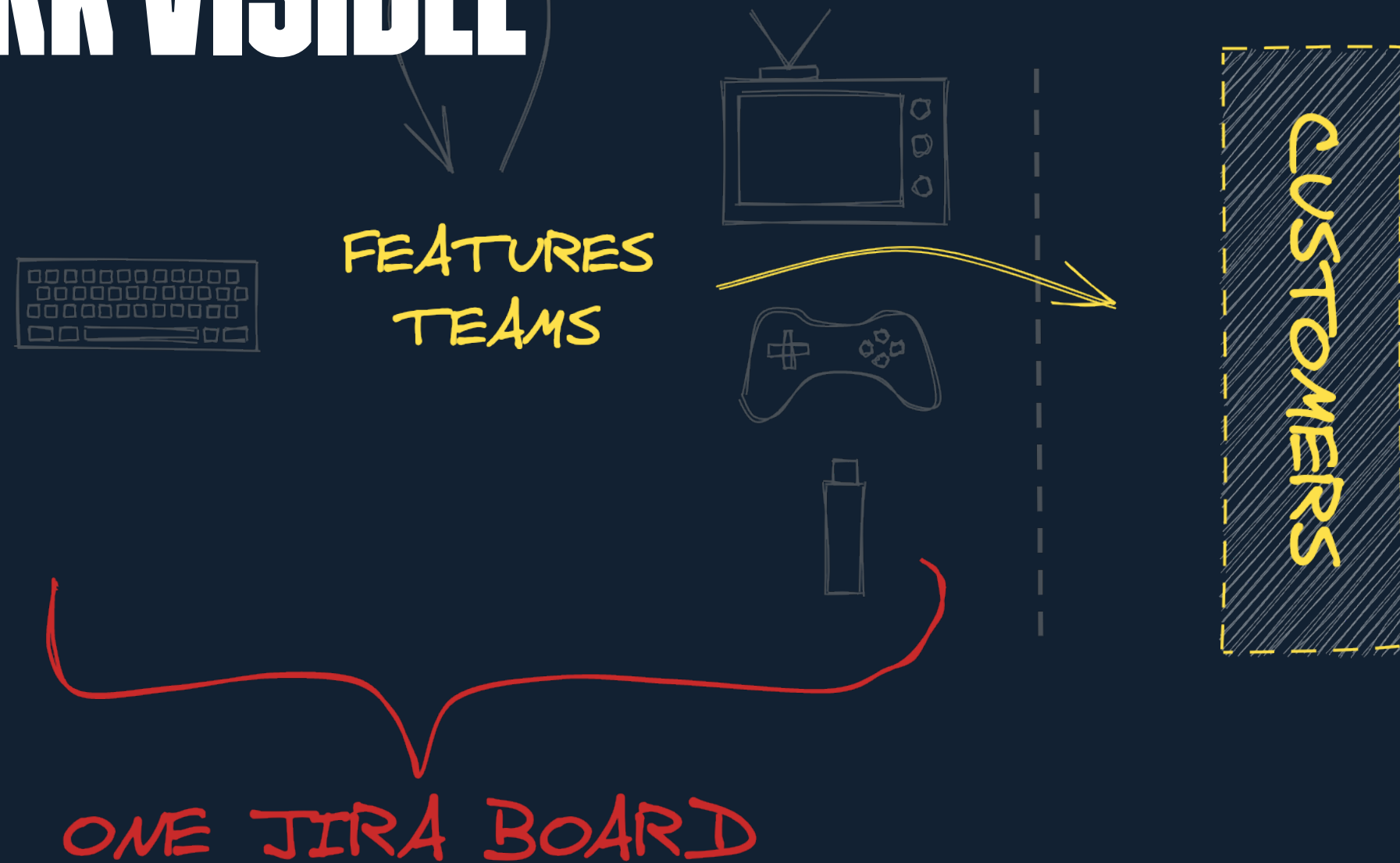
# TV PLATFORM TEAM & FEATURES TEAMS





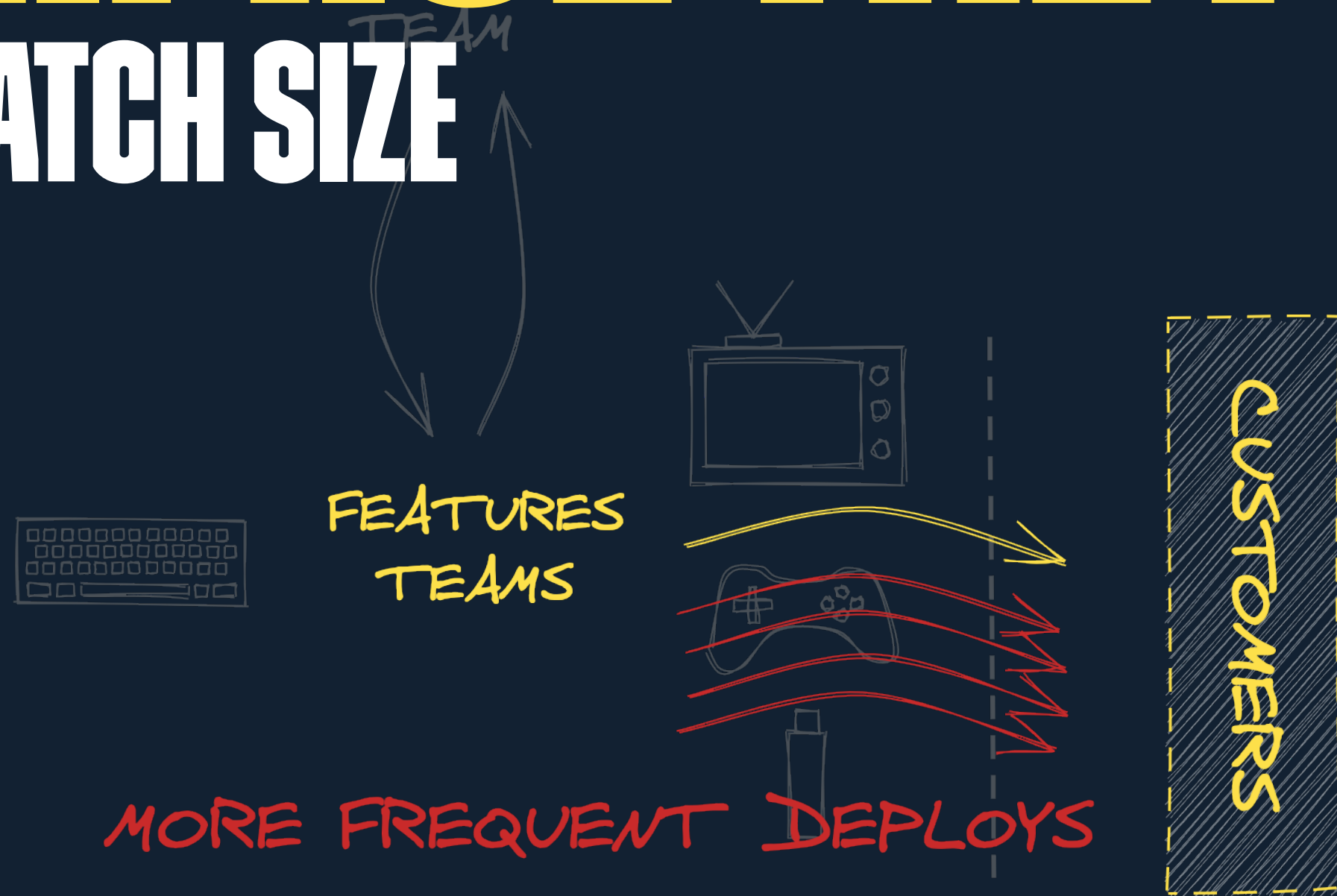
# MAXIMISE THE FLOW

MAKE WORK VISIBLE



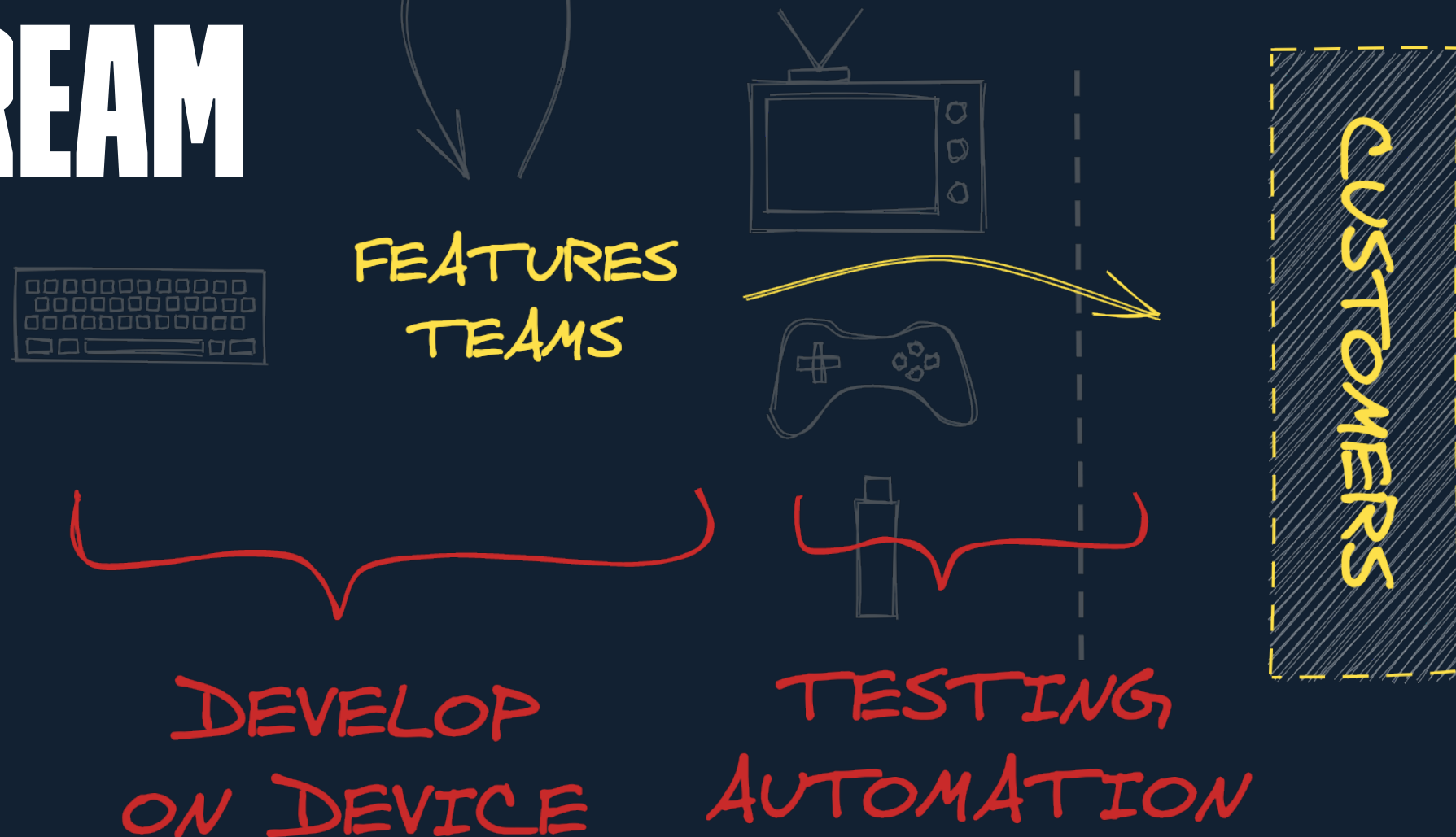
# MAXIMISE THE FLOW

## REDUCE BATCH SIZE



# MAXIMISE THE FLOW

PREVENT DEFECTS BEING PASSED  
DOWNSTREAM



**MAXIMISE THE FLOW**

**RECAP**

- » One Jira board to make the work visible
- » One Team that deploys often, autonomously
- » Develop on device early + Test Automation

# TAKEAWAYS

- » The Developer Experience is important
- » DevOps is about unifying and enabling
- » The Backend it's just the beginning
- » Measure, Improve & Repeat

# THANK YOU

[github.com/maxgallo/talk-devops-for-frontend](https://github.com/maxgallo/talk-devops-for-frontend)

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→ we're hiring (DMs are open)