

FINAL PRESENTATION

TEAM PROJECT

Presentation By
DIGINAUTS



MEET OUR TEAM



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1

BRAINSTORMING ABOUT DIGITAL SOCIETY

Digital TUL

2

DESK RESEARCH

Find out the disadvantages of
TUL's digital platforms and what
information are missing

3

INTERVIEWS

Compare students'
opinions about digital
tuition platforms with the
problems we've identified



WIKAMP
WIRTUALNY KAMPUS POLITECHNIKI ŁÓDZKIEJ



Politechnika Łódzka



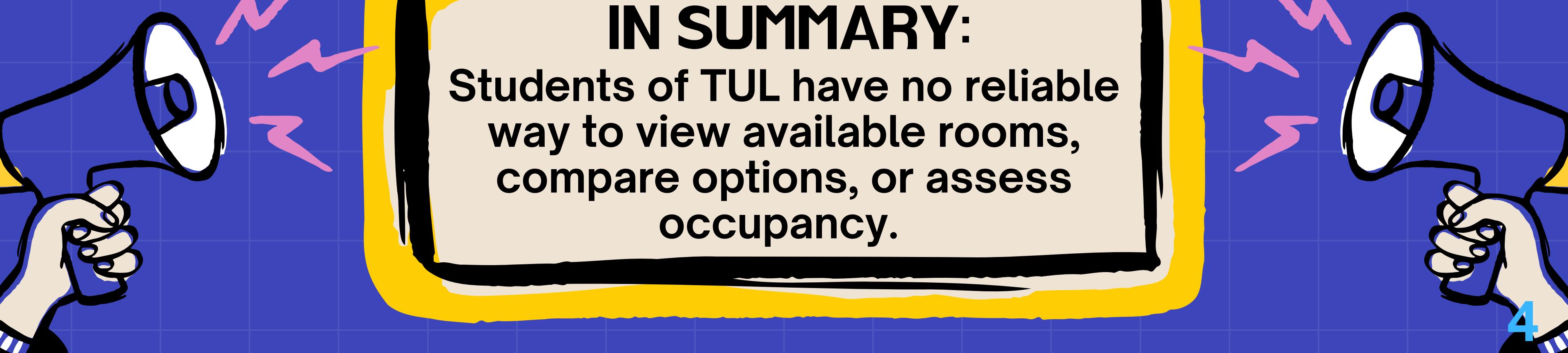


4

DECISION MAKING

Choosing one problem to solve

Lack of information about study/rest spaces



IN SUMMARY:
Students of TUL have no reliable way to view available rooms, compare options, or assess occupancy.

PROBLEM DEFINITION 5W1H

WHO?

Tech-savvy students at Lodz University of Technology (TUL) who manage busy schedules and expect quick, digital access to information.

WHAT?

They struggle with the complete lack of digital visibility into available study and rest spaces on campus.

WHERE?

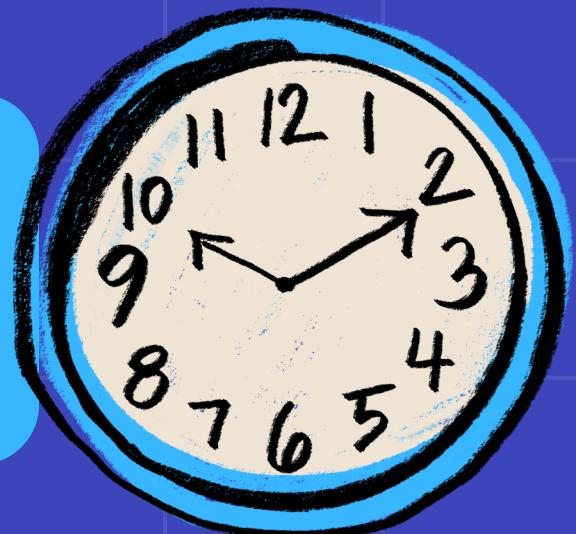
Across various campus buildings and facilities, where students often need flexible, accessible environments.



PROBLEM DEFINITION 5W1H

WHEN?

Whenever they need to **quickly find a suitable place to study or relax between classes or commitments.**



WHY?

With **no official room maps, real-time occupancy data, or comparison tools, students waste time checking spaces or rely on word of mouth.**



HOW?

This leads to **overcrowding in popular spots and undermines the university's image as a modern, tech-driven institution.**

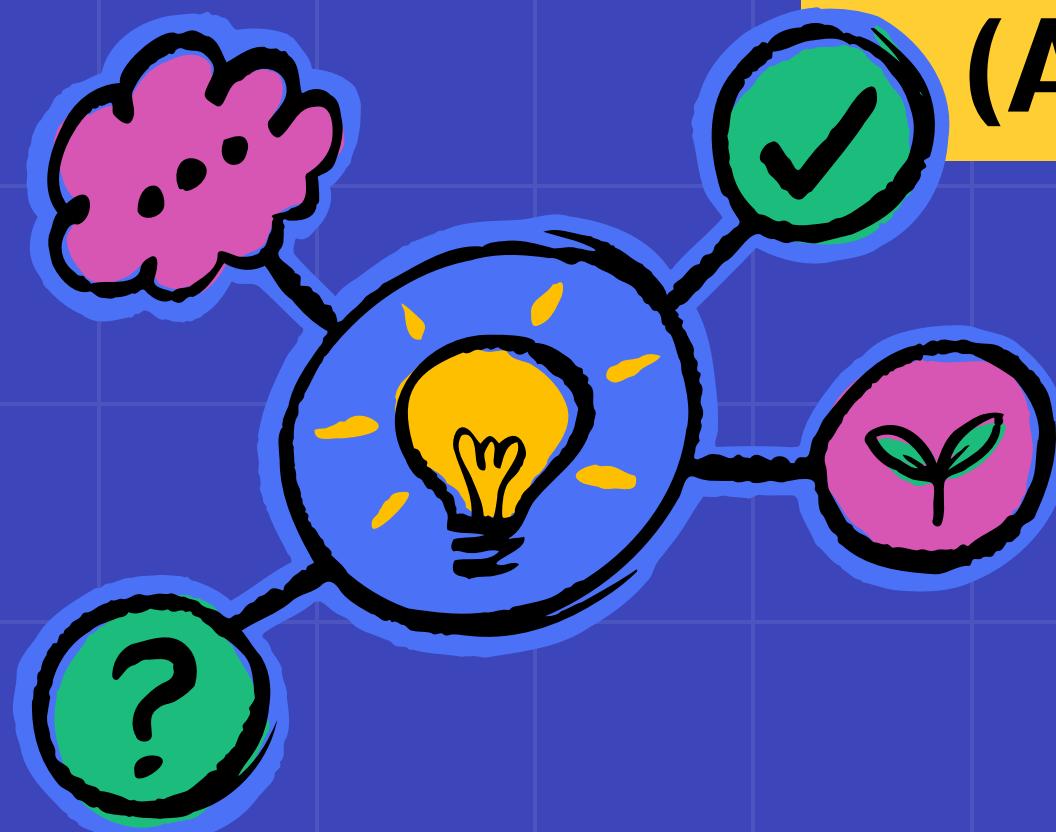
OUR GOAL

Develop a
digital solution

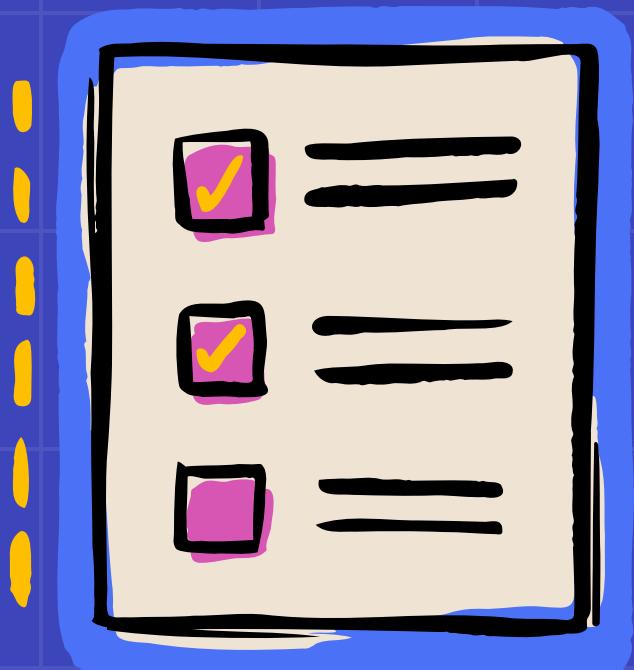
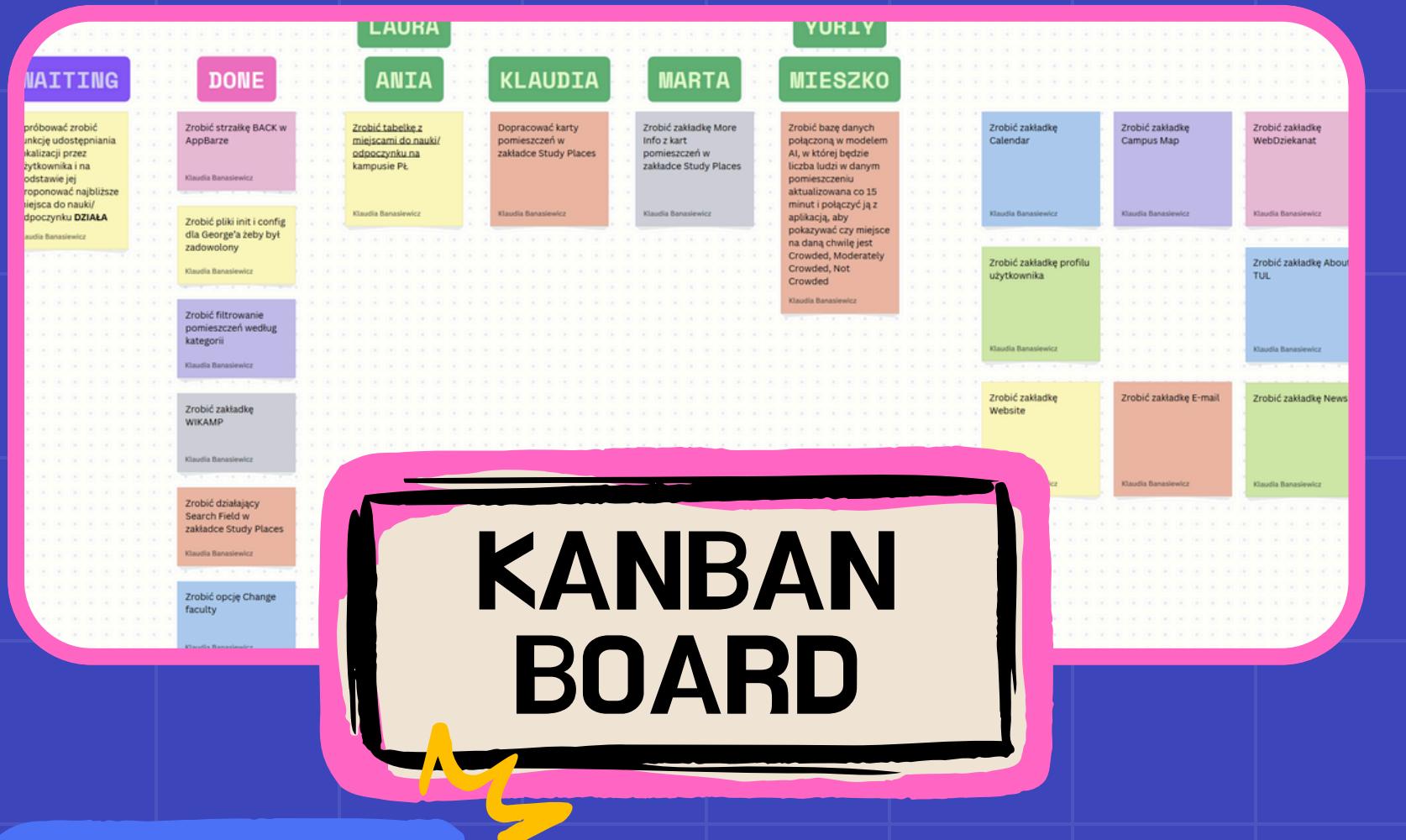
**ALIGNED WITH
OUR STUDIES
(AI, DATA)**

ACCESSIBLE
USER-FRIENDLY

**SOLVE REAL
STUDENT
NEEDS**



WORK IN PROGRESS



Google Drive

myTUL

Your Digital Campus

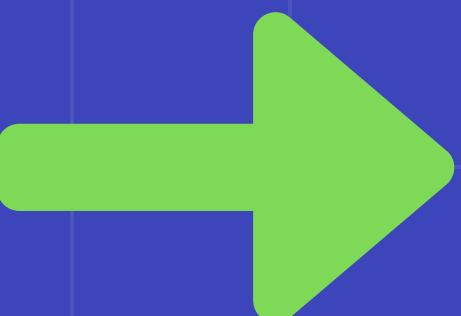


LEGAL AND ETHICAL CONCERNS

Under RODO (GDPR), any data that can identify a person (directly or indirectly) is considered personal data.

If YOLO model detects "person" class but:

- Doesn't store video or images
- Doesn't try to identify who the person is
- Doesn't process facial features



It's likely not processing personal data.

If person detection is done on edge devices (e.g., Raspberry Pi) and only the count is sent (not video/images) - this is usually safe under RODO.

NO NOTIFICATION = POSSIBLE RODO VIOLATION

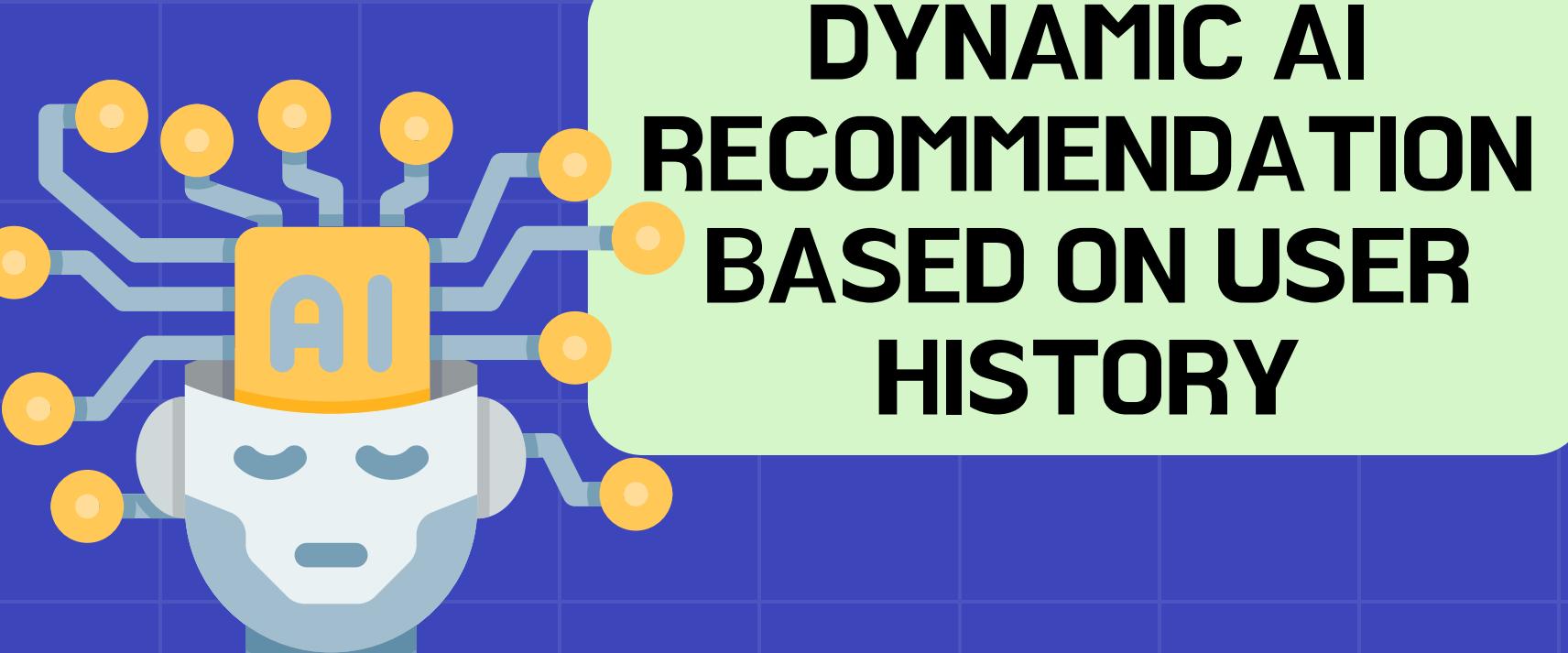
TRANSPARENCY IS THE KEY!



WAYS OF DEVELOPMENT



UNIVERSITY
AUTHENTICATION



DYNAMIC AI
RECOMMENDATION
BASED ON USER
HISTORY



SUPPORT FOR OFF-
CAMPUS SPACES LIKE
LIBRARIES OR CAFES

MANUAL INPUT FROM USERS

WI-FI SYGNAL
STRENGTH TRACKER



FAVORITES AND
STUDY HISTORY
TRACKING



WHY IT'S UNIVERSAL

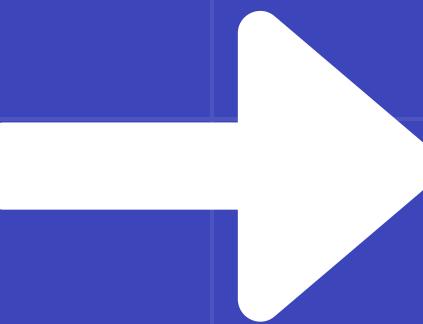
WORKS IN ANY SPACE
WITH CAMERA

MULTI-PURPOSE
DETECTION

OBJECT DETECTION

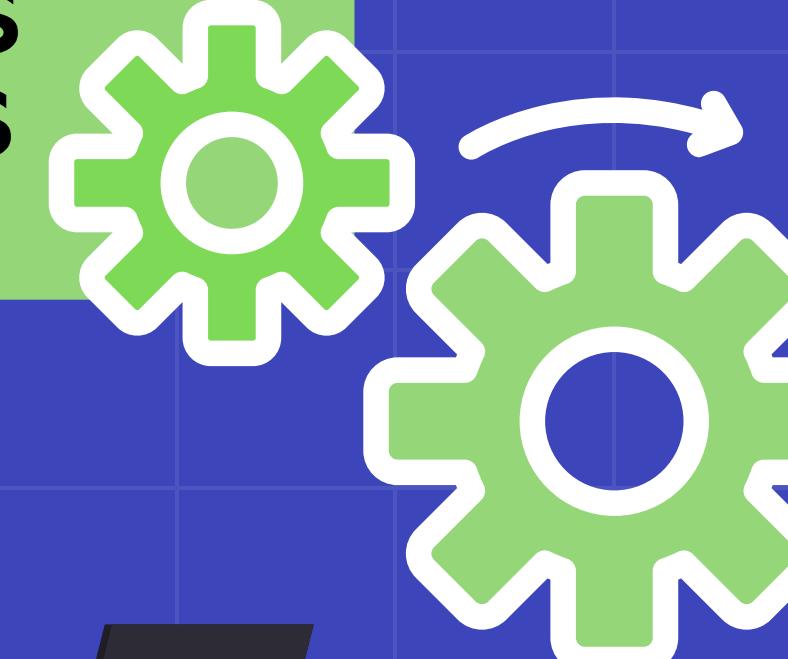


SOCIAL
DISTANCING
OR QUEUE
LENGTHS



APPLICABLE ACROSS
ENVIRONMENTS

- SHOPPING CENTERS
- EVENT VENUES
- RESTAURANTS
- AND SO ON...



GRATEFUL!

**THANK
YOU**

**Q&A
SESSION**

