



# FAMU-FSU COLLEGE OF ENGINEERING

## ECE Information Kiosk Presentation 1

Team 2 (EE), Team 26 (ME)

# Our Team



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# Our Team



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# Advisors Reviewers & Sponsor

- Dr. Andrei - Advisor
- Dr. Harvey - Reviewer
- Dr. Hooker - Reviewer
- Dr. Foo - Reviewer
- Mr. Arthur Jack & ECE Advisory Board - Sponsor
- Mrs. Faye Gibson - Expert

# Introduction

- Need for appealing technology hub to disperse information and show the ECE Department's advancement
- Problems with current methods:
  - Emails often disregarded
  - Students do not visit website
  - Word of mouth gets lost in translation
  - Current maps are disproportionate to reality

# Introduction

- Installing an interactive infotainment system shows that the College of Engineering is up to date with innovation
- Kiosks provide a multitude of services
  - Job applications
  - Information centers
  - Flight check-ins
  - Appointment scheduling

# Value Proposition

## General

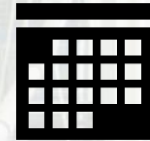
- Create an infotainment system that provides a friendly user interface to access important and relevant data
- Information will be disseminated through text, pictures, audio, and video



# Value Proposition

## Students

- Professors' office locations, office hours
- Access to faculty profiles
- Research opportunities
- General Body Meetings (GBM's)
- Upcoming events

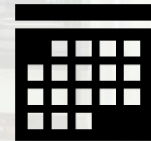




# Value Proposition

## Recognized Student Organizations

- Display general Information
- Upcoming events
- Contact information
- Mailing lists
- Board profiles / sponsor information

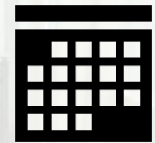


Currently 23 RSOs in COE

# Value Proposition

## Faculty

- Provide information on seminars, recruiting events, strategic planning research sessions
- Campus wide events
  - "This Week in Engineering"
  - Messages from Dean Murray
- Research



# Location



Figure 1. Hallway

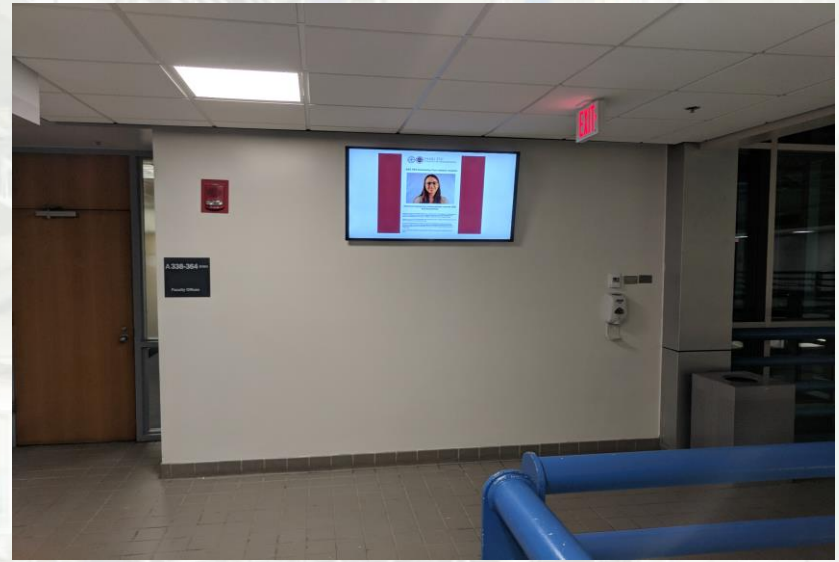


Figure 2. Corner

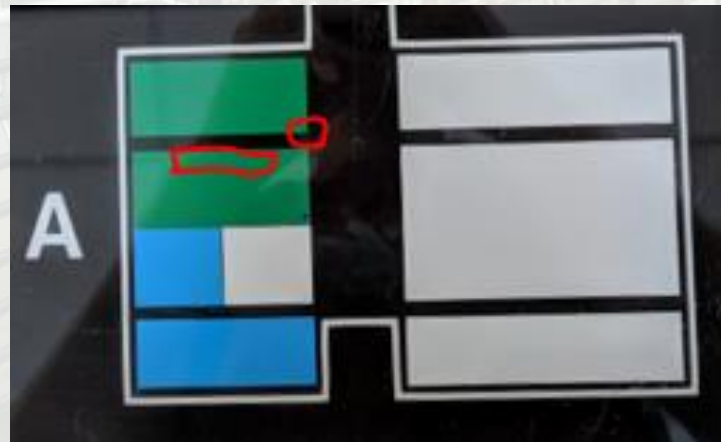


Figure 3. 3rd Floor Layout

# Survey

- *In order to solve the problems of our target groups we needed first to understand who they are.*
- *We divided our potential users into three main groups:*

**Visitors**



**Students**



**Faculty**



# Rating of the Current Information System



Figure 4. Visitor

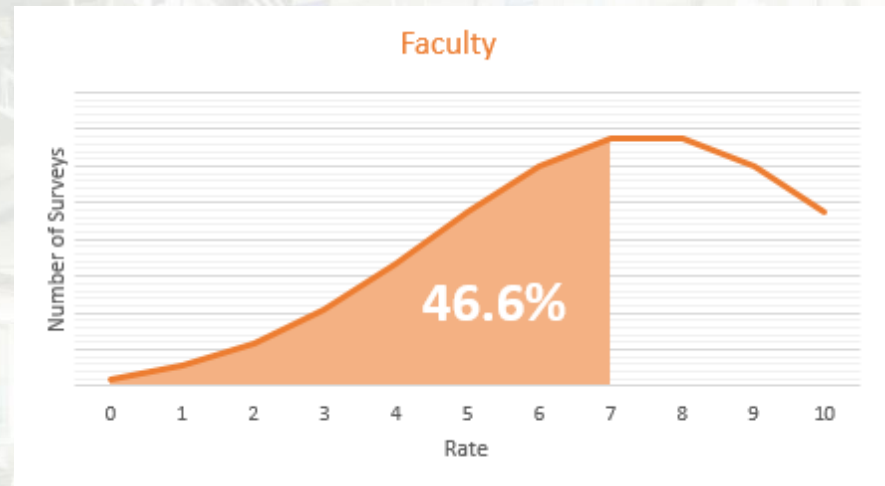


Figure 5. Faculty

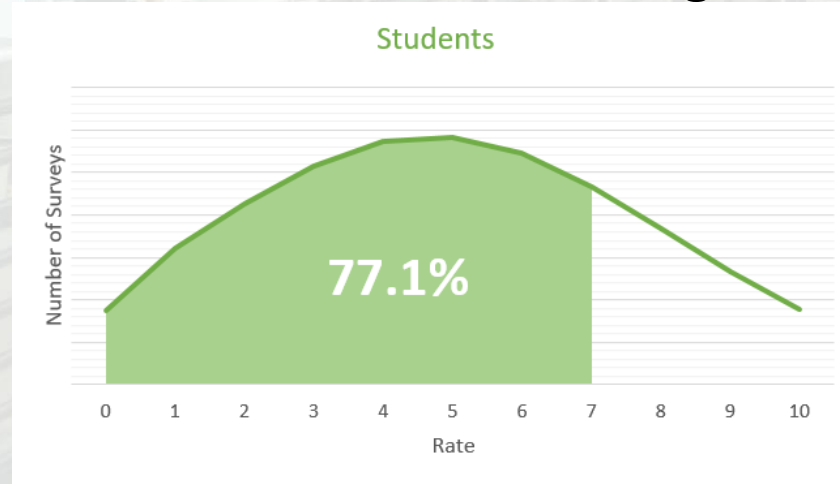


Figure 6. Students

# Current Information Methods

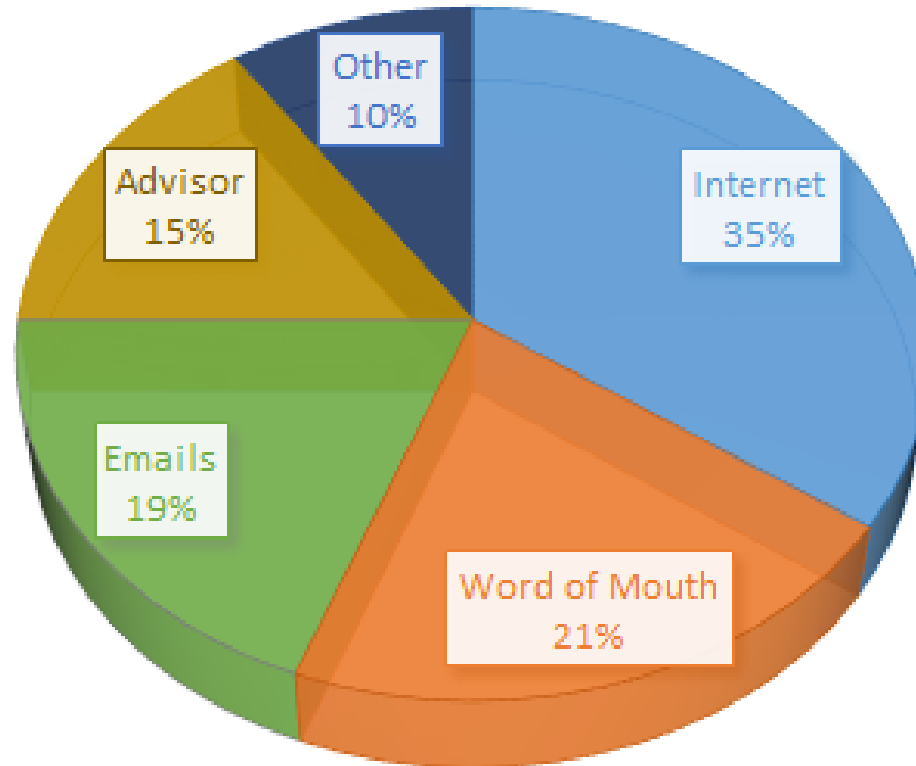


Figure 7. Information Pie Chart

# Most Desired Features

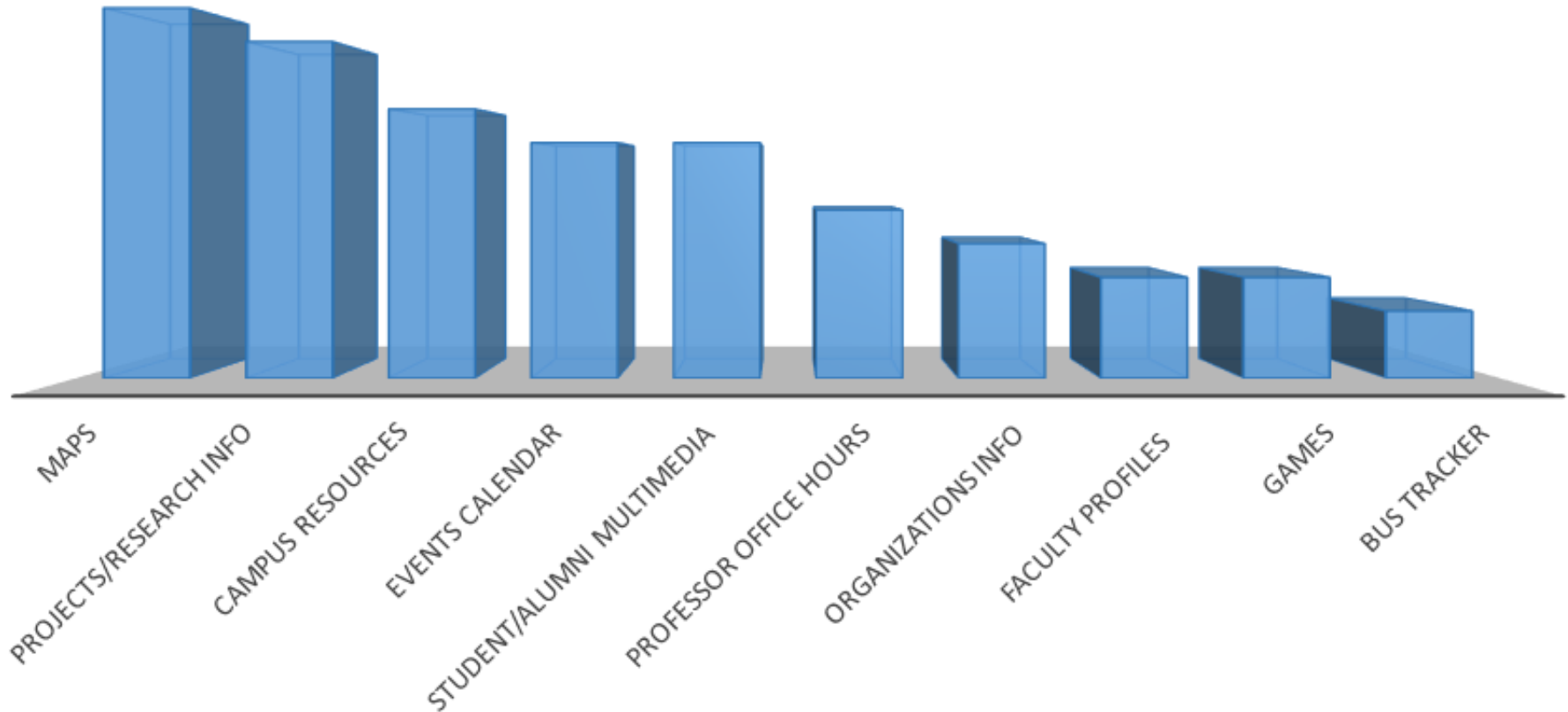


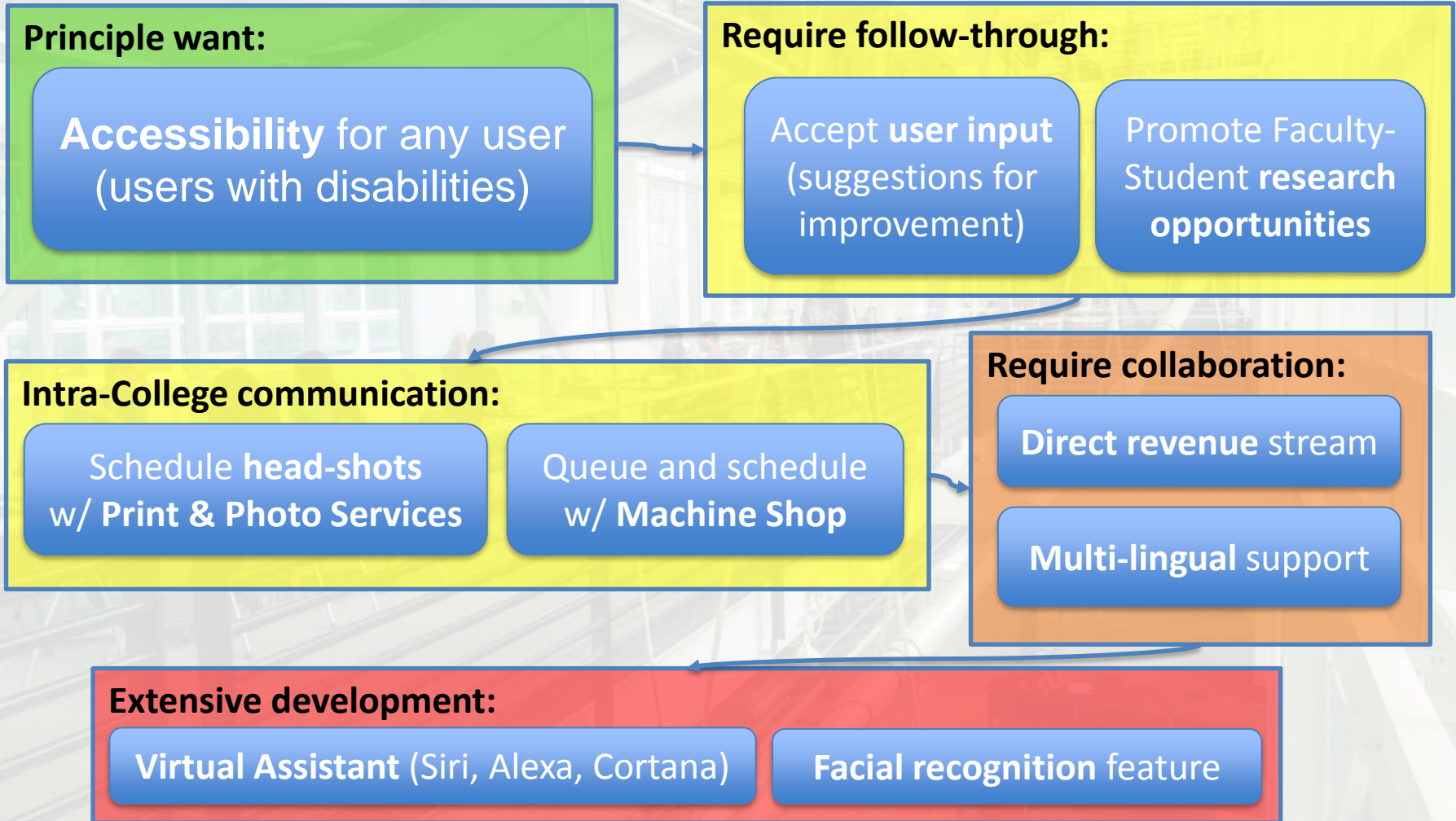
Figure 8. Desired Features Survey Results

# Project Needs

- A central repository for information about the college
- A way to demonstrate the technological capacity of the ECE Department
- An interactive touchscreen with visual and audio cues
- A friendly resource for visitors to learn about the ECE Department
- A way for users to schedule meetings
  - office hours, advisors, presentations
- Easily to update and manage (future-proofing)
- Kiosk will be wall-mounted but scalable to freestanding
- Securely connected to the internet
- Protected against theft or tampering



# Project Wants



# Relevant Research

## Benchmarking Student Kiosks<sup>[1]</sup>

- **Innovation:** Image as technology frontrunners
- **Access/inform:** Users need information quickly
- **Directions:** Orientation for students, visitors (useful map)
- **Calendar:** Present on-going or upcoming events
- **Check-in:** Manage student meetings with professors
- **Surveys:** User input to improve College
- **Engage:** Connect with visitors

[1] Advanced Kiosk, 2016

# Relevant Research

## Attention Study<sup>[2]</sup>

- Users become disinterested in 8.25 seconds unless positively engaged
  - Emphasizes small window to connect with users
- Users typically maintain interest for 2.7 minutes of videos (skews high; includes long-form videos)
  - Relevant kiosk media would need to be shorter
- 25% of teens have problems recalling birthdays, addresses, etc. of close friends and relatives
  - Reinforces that students would continually rely on kiosk to recall College information

[2] Statistic Brain, 2016

# Kiosk Benefits for College

- Improve student information access
- Broaden user awareness of research and events
  - Supplement promotional fliers and bulletin boards
- Facilitates scheduling process for meetings
- Promote College and faculty image
- Provide revenue opportunities

# Functional Decomposition

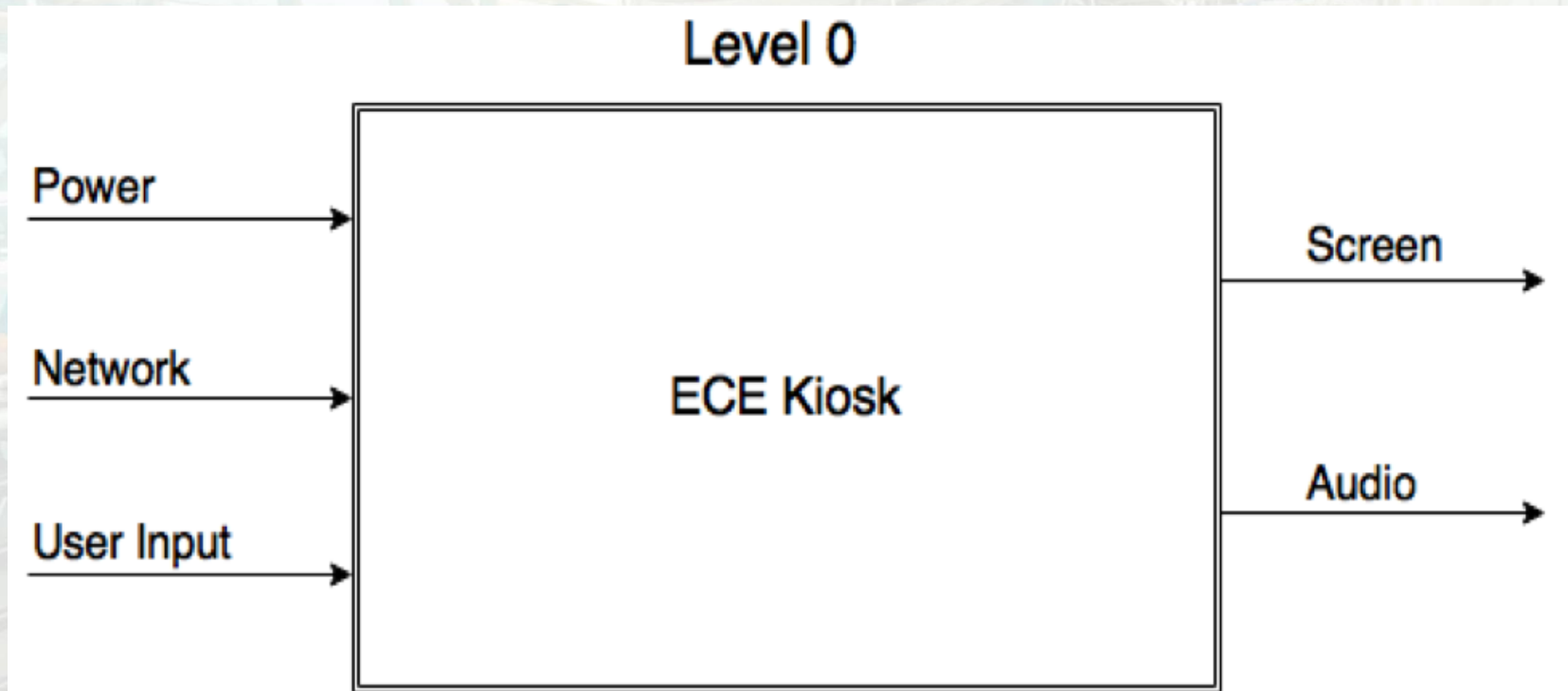


Figure 9. Level 0 Functional Decomposition

# Functional Decomposition

(continued)

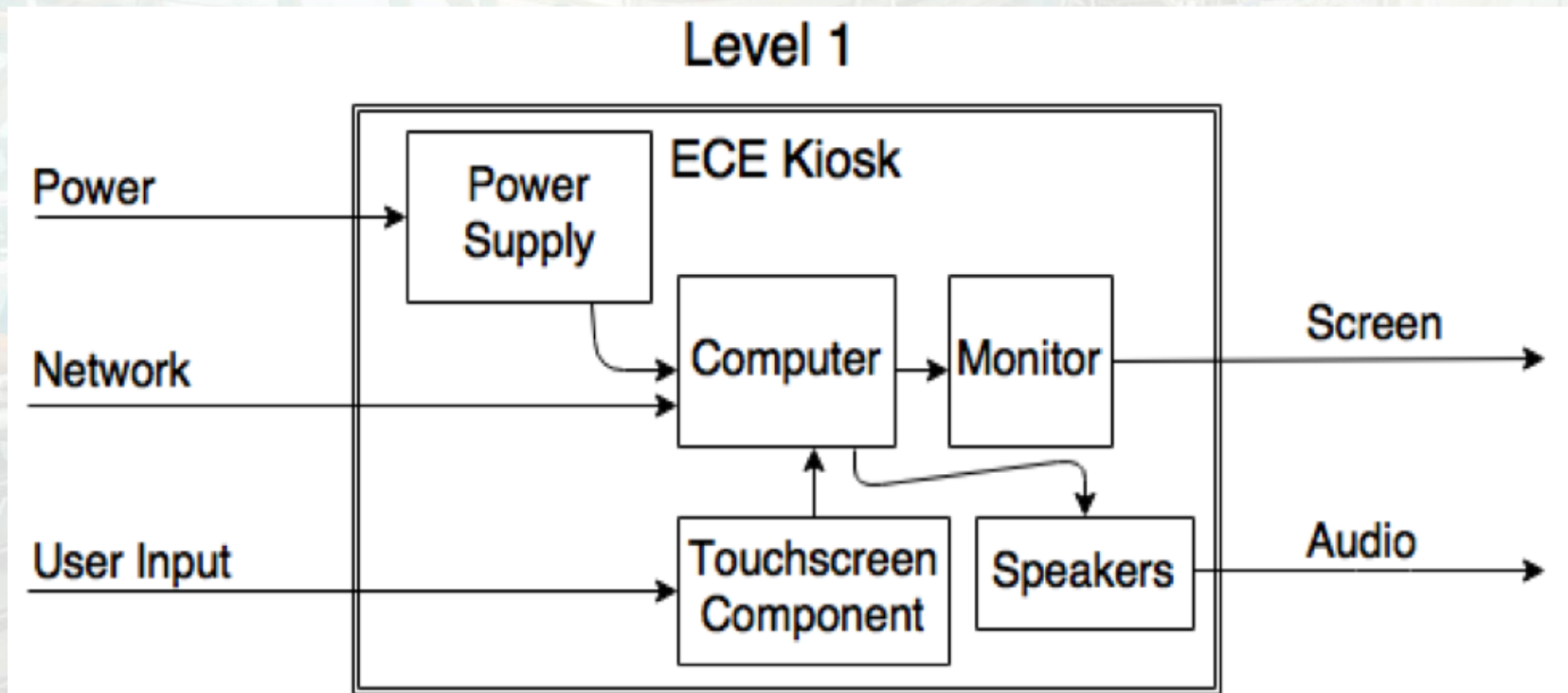


Figure 10. Level 1 Functional Decomposition

# Important Factors to Think About

- Design the kiosk to be compatible to new ideas for years to come
  - Update information regularly so does not collect dust
  - Stay up to date with cutting edge technology
- Scalability
- Reach out to sponsors

# Moving Forward

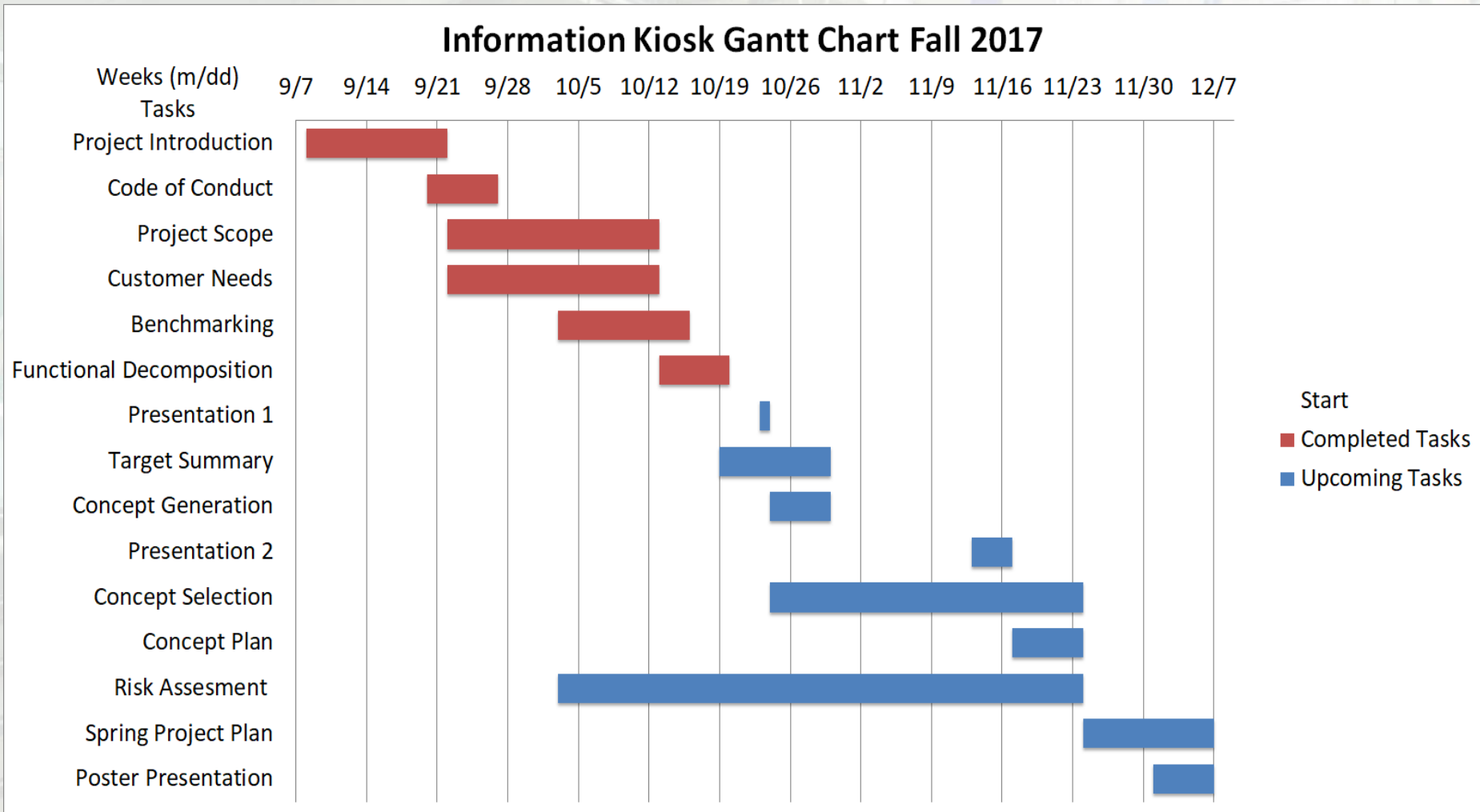


Figure 11. Gantt Chart



# References

- [1] *"How Do College Campuses Utilize Interactive Kiosks?"* Advanced Kiosks, 19 Apr. 2016, [www.advancedkiosks.com/2016/04/college-campuses-interactive-kiosks/](http://www.advancedkiosks.com/2016/04/college-campuses-interactive-kiosks/). Last accessed on 20 Oct. 2017
- [2] *"Attention Span Statistics."* Statistic Brain, 2 July 2016, [www.statisticbrain.com/attention-span-statistics/](http://www.statisticbrain.com/attention-span-statistics/). Last accessed on 20 Oct. 2017

# Questions?