

# RIDPMS

A Platform which decreases the distance between the Citizens and the Government.



What's our story?

## Brainstorming

Existing manual system keeps development dissatisfaction

- Corruption.
- Citizens engagement.
- Transparency.
- Hidden project activities.
- Complex dependency of hierarchy.

# USERS AND FEATURES

Who are the users –

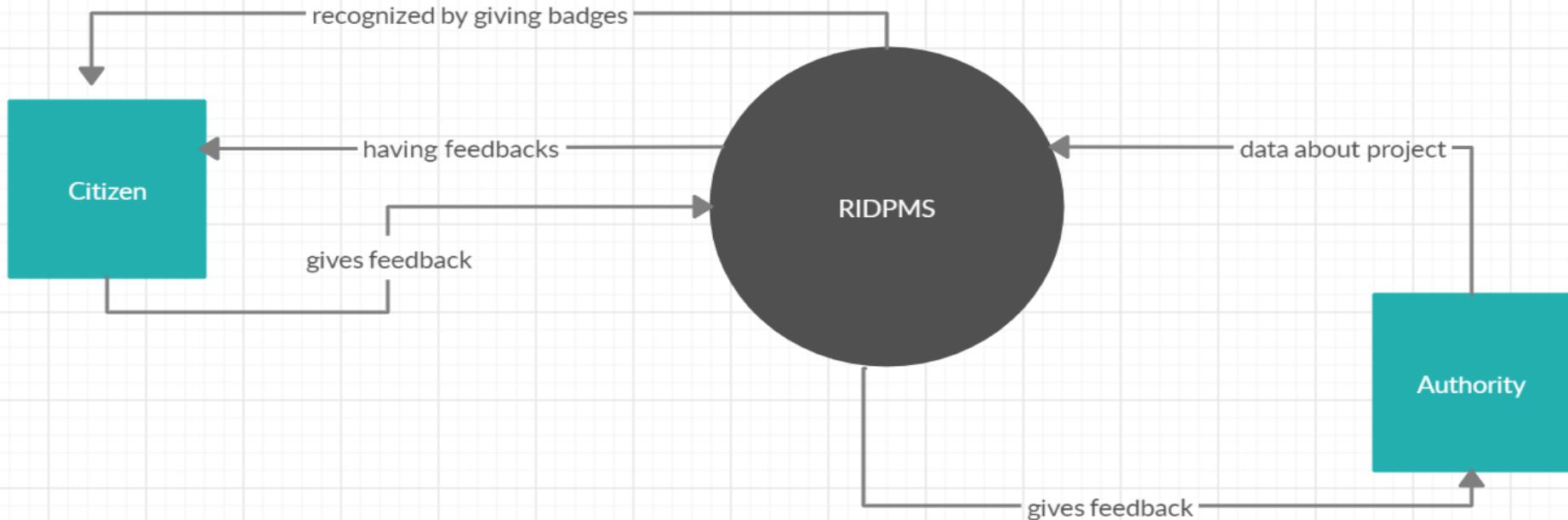
- Citizens
- Authorities

- Tasks to perform:-
  - ✓ Nearest project in your area
  - ✓ Search Location
  - ✓ Project Details
    - Images , maps
    - Project Members
    - Deadline , Cost
  - ✓ Poll activities
  - ✓ Result
    - via the SAR process.
  - ✓ Reputation based leaderboard.
  - ✓ Badges based Tax Rebate options.

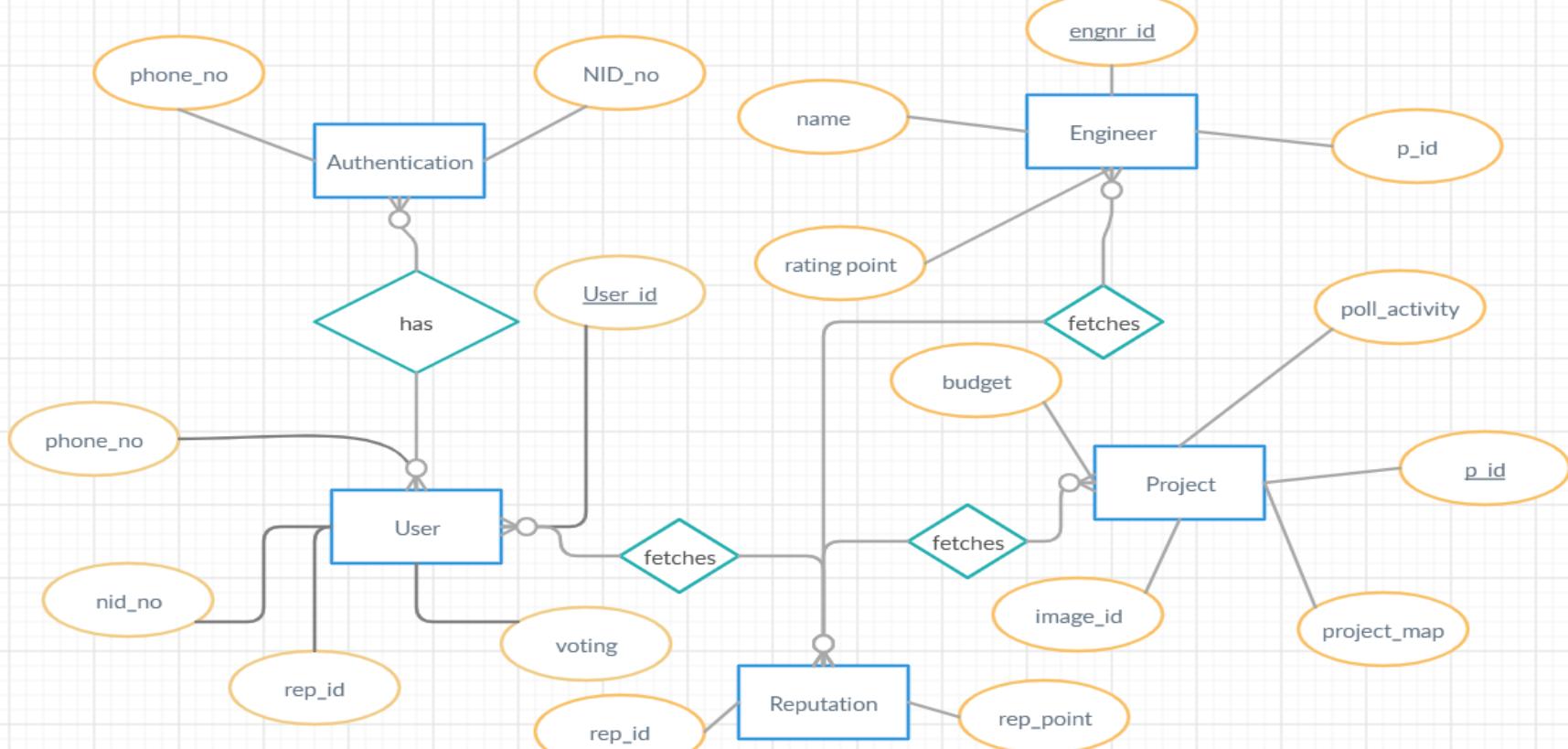
## FEASIBILITY TEST

- Manual solution.
- Automatic data handling.

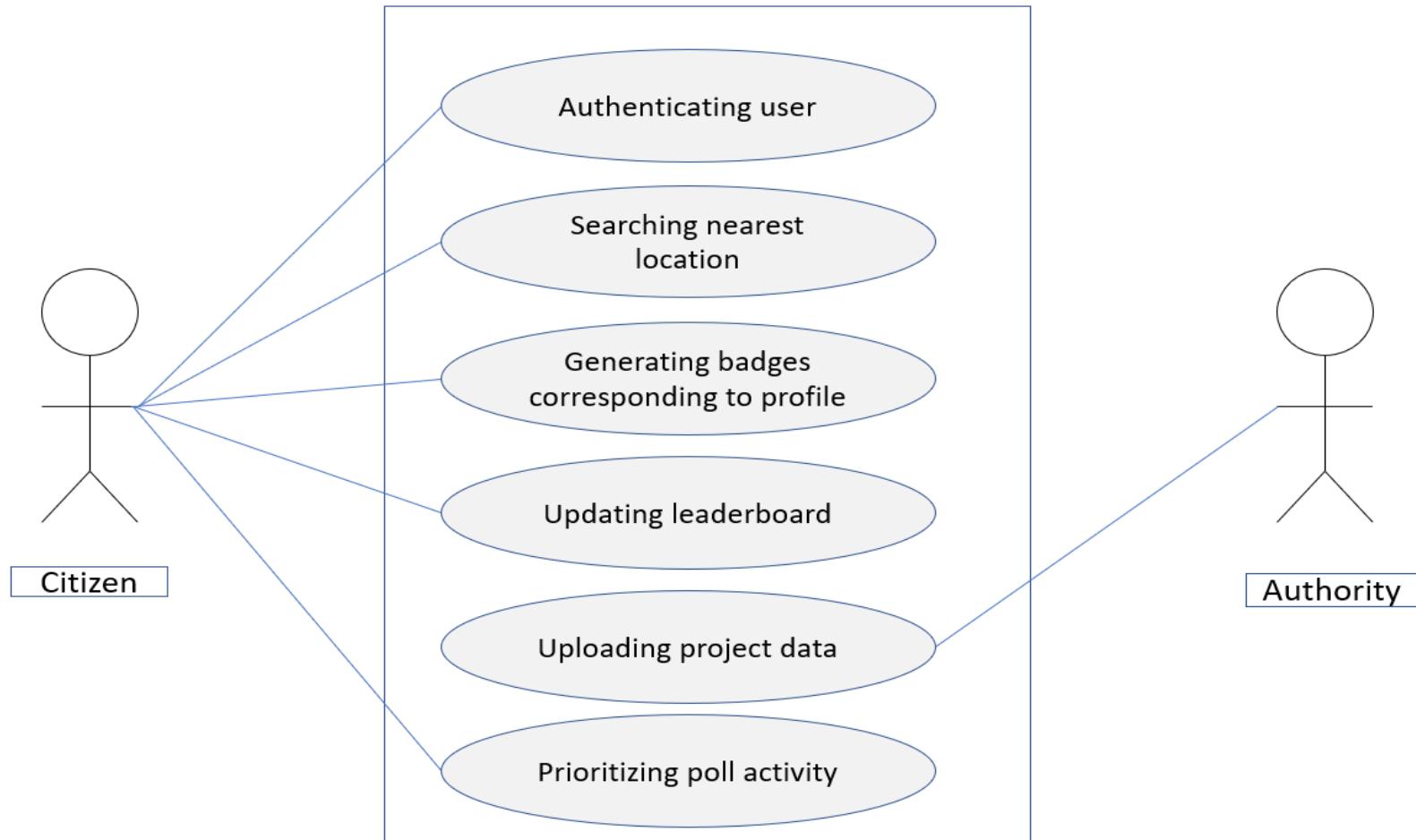
# CONTEXT LEVEL DFD



# ER DIAGRAM



# USE CASE DIAGRAM



# PROTOTYPE

Log in page



REGISTER HERE

NID

 Enter your National id card no.

Phone Number

 Enter your phone number

**Register**

OTP validation



WE HAVE SENT AN OTP



OTP

 Enter the OTP

**Next**

# PROTOTYPE

## Home Page

The Home Page displays a navigation bar with links to Home, Civilians Leaderboard, Engineers Leaderboard, and Profile. A search bar allows users to find specific locations. Below this, a section titled "Current Projects near you" lists five projects:

- Rural Road and Bridge/Culvert Maintenance (1000 points, 20 tasks)
- Second Rural Transport Improvement Project (RTIP-II) (850 points, 31 tasks)
- First Rural Transport Improvement Project (RTIP-I) (10000 points, 3 tasks)
- Rural Road and Bridge/Culvert Maintenance (800 points, 10 tasks)
- Rural Road and Bridge/Culvert Maintenance (200 points, 20 tasks)

A circular badge at the bottom indicates a total Reputation of 510.

## Project details

The Project details page features a navigation bar with tabs for Details, Poll, and Result. The Details tab is currently selected. It contains three dropdown sections:

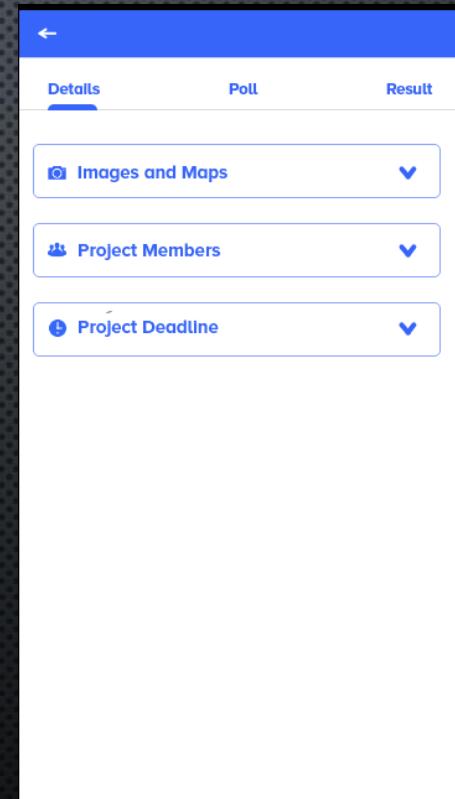
- Images and Maps
- Project Members
- Project Deadline

# PROTOTYPE

## Search location



## Project details



# PROTOTYPE

## Poll

This activities are taken for completing project

Activity	Value
Activity 1	1000
Activity 2	500
Activity 3	10k
Activity 4	200
Activity 5	0

[Add More Options](#)

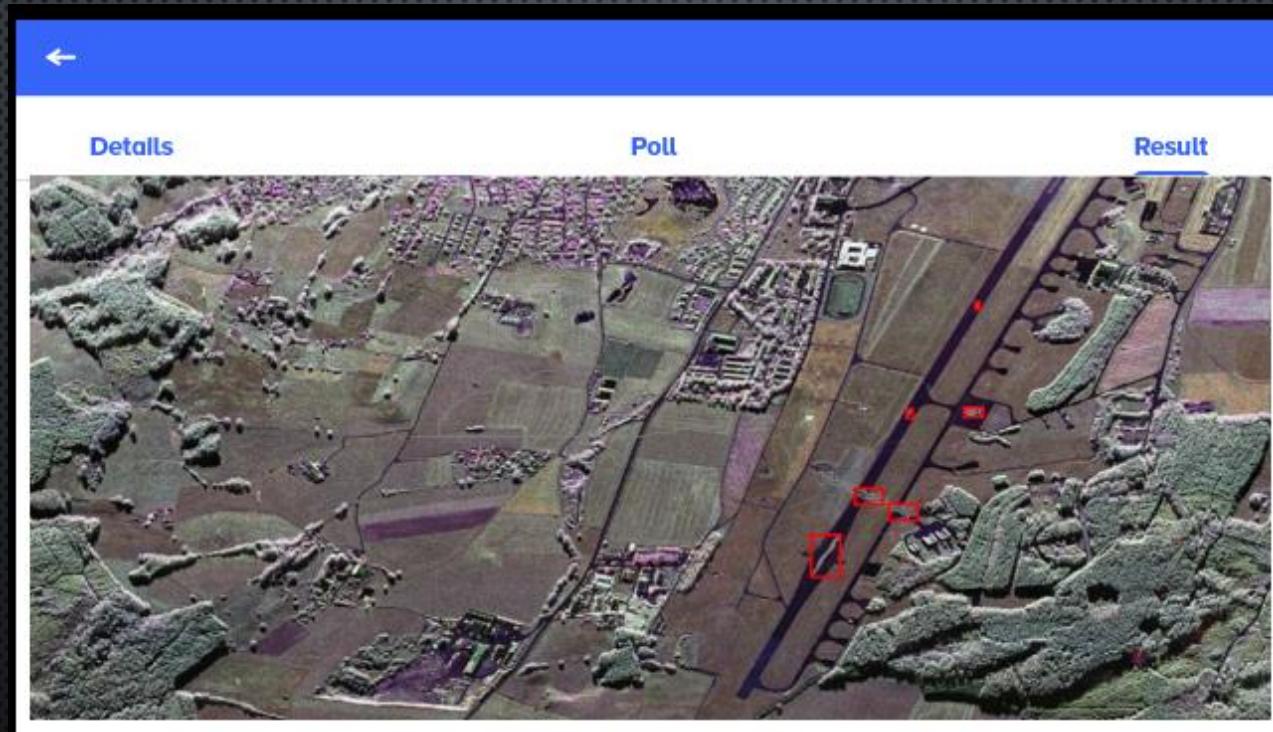
[+](#)

## Result



# PROTOTYPE

## Result



# PROTOTYPE

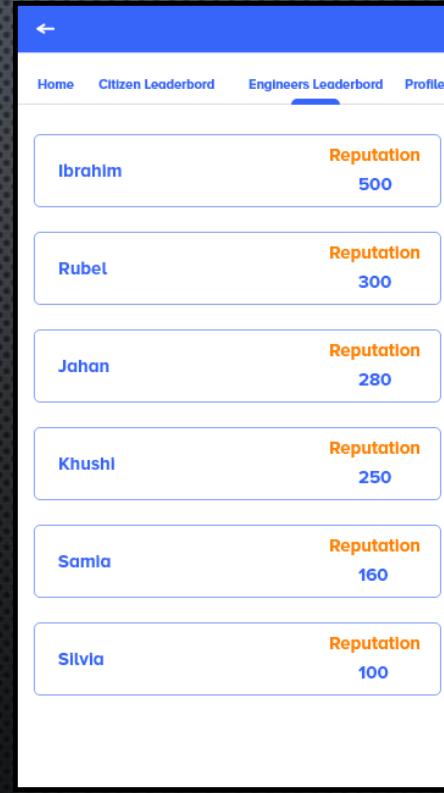
## Citizens leaderboard



A screenshot of a mobile application interface showing the 'Citizen Leaderbord' tab selected. The screen has a blue header bar with navigation links: Home, Citizen Leaderbord (underlined), Engineers Leaderbord, and Profile. Below the header is a back arrow icon. The main content area displays a list of six users with their names and reputation scores:

Abdullah	Reputation 1200
Malfee	Reputation 1100
Naimur	Reputation 900
Subrata	Reputation 345
Anik	Reputation 100
Saurav	Reputation 60

## Engineer's leaderbord

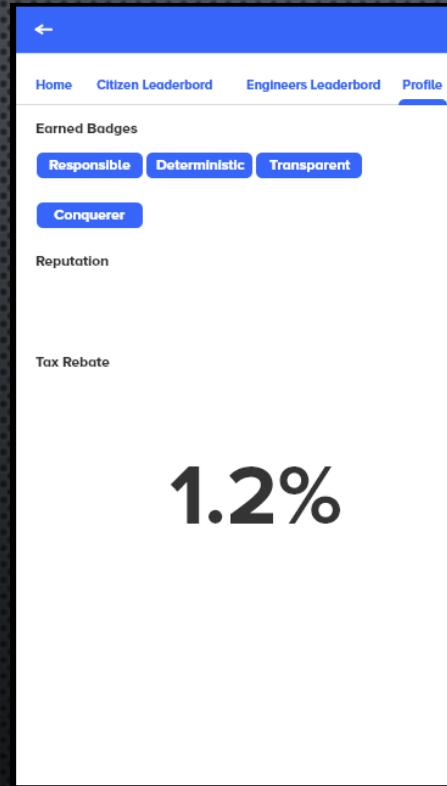


A screenshot of a mobile application interface showing the 'Engineers Leaderbord' tab selected. The screen has a blue header bar with navigation links: Home, Citizen Leaderbord, Engineers Leaderbord (underlined), and Profile. Below the header is a back arrow icon. The main content area displays a list of six users with their names and reputation scores:

Ibrahim	Reputation 500
Rubel	Reputation 300
Jahan	Reputation 280
Khushl	Reputation 250
Samia	Reputation 160
Silvia	Reputation 100

# PROTOTYPE

## Profile



# REPUTATION CALCULATOR

If any user up votes on a poll, his reputation will be added to that poll.  
If that poll receives his reputation what will the user get?

We have created a simple algorithm for that.

First we divide total reputation by number of civilians involved in the poll. Then we multiply that value by civilian ranking index, if SAR verification shows that the project is successful, then user is actually involved in good activities. So that reputation will be added to the user. Else the reputation will be deducted.

Same procedure is applied for authorities.

What they can do with these reputation?  
We are running the government by providing tax, what about some refund.

# REPUTATION CALCULATOR

Citizen	Index (Highest rep considered 1)
User1	1(1000)
User2	.8(800)
User3	.45(450)

Authority	Index (Highest rep considered 1)
Eng1	1(5000)
Off1	.4(2000)

Let's consider in a poll user1 and user3 have voted. There were two polls.

User1 voted for both poll and user3 just for the second one.

So the poll total gained reputation of 2450.

Number of citizen involved 2.

If SAR verifies, then user1 will gain  $(2450)/2*1$ , else this amount will be deducted.

And the user3's rep change will be  $(2450/2)*.45$

So for authorities.

# What's SAR?

Synthetic-aperture radar

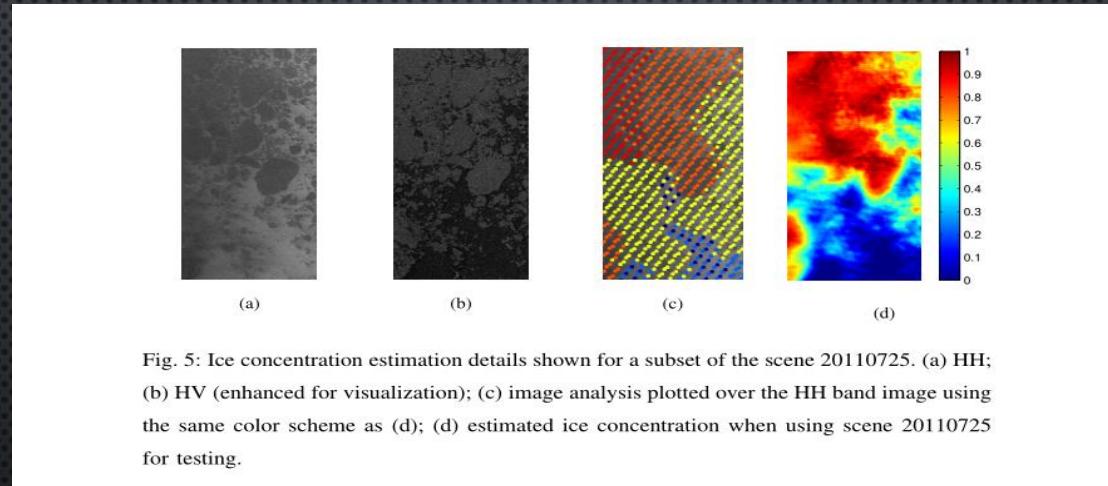


Fig. 5: Ice concentration estimation details shown for a subset of the scene 20110725. (a) HH; (b) HV (enhanced for visualization); (c) image analysis plotted over the HH band image using the same color scheme as (d); (d) estimated ice concentration when using scene 20110725 for testing.

Ice concentration estimation from  
dual-polarized SAR images using deep  
convolutional neural networks

Lei Wang, Student Member, IEEE, K. Andreg Scott, Member, IEEE, Linlin  
Xu, Member, IEEE, David A. Clausi, Senior Member, IEEE

# Our Future Plan

# Thank You

for your patience and attention.