



Collaboration in a single click

# CLICK2COLLAB

# PROBLEM

- Currently it is next to impossible to share the state of an app with another user.
- Collaboration among users of the same app is unheard of.
- Variance in the underlying hardware and software has not helped the issue.
- It hinders communication and collaborative problem solving.



# PROBLEM

- In essence :

**HOW CAN I SHARE WHAT I AM  
SEEING WITH MY COLLEAGUES  
AND LET THEM COLLABORATE  
WITH ME?**



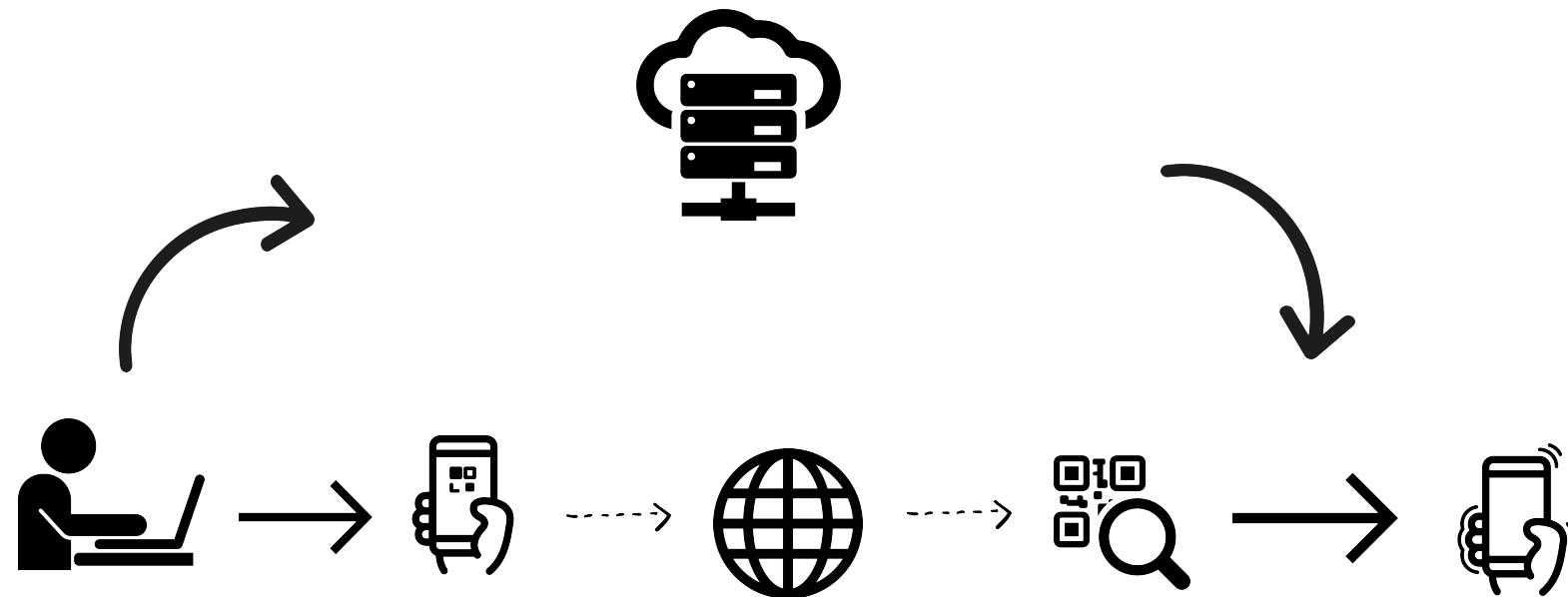
# SOLUTION

- Develop a means to share application state.
- Simplify the mechanism so that it is usable for everyone.
- Save, restore and share application state in a non-intrusive way with minimal user intervention.
- Make it easy to integrate into any existing application.



# BETWEEN DIFFERENT DEVICES

Click2Collab saves app state in the cloud transparently.



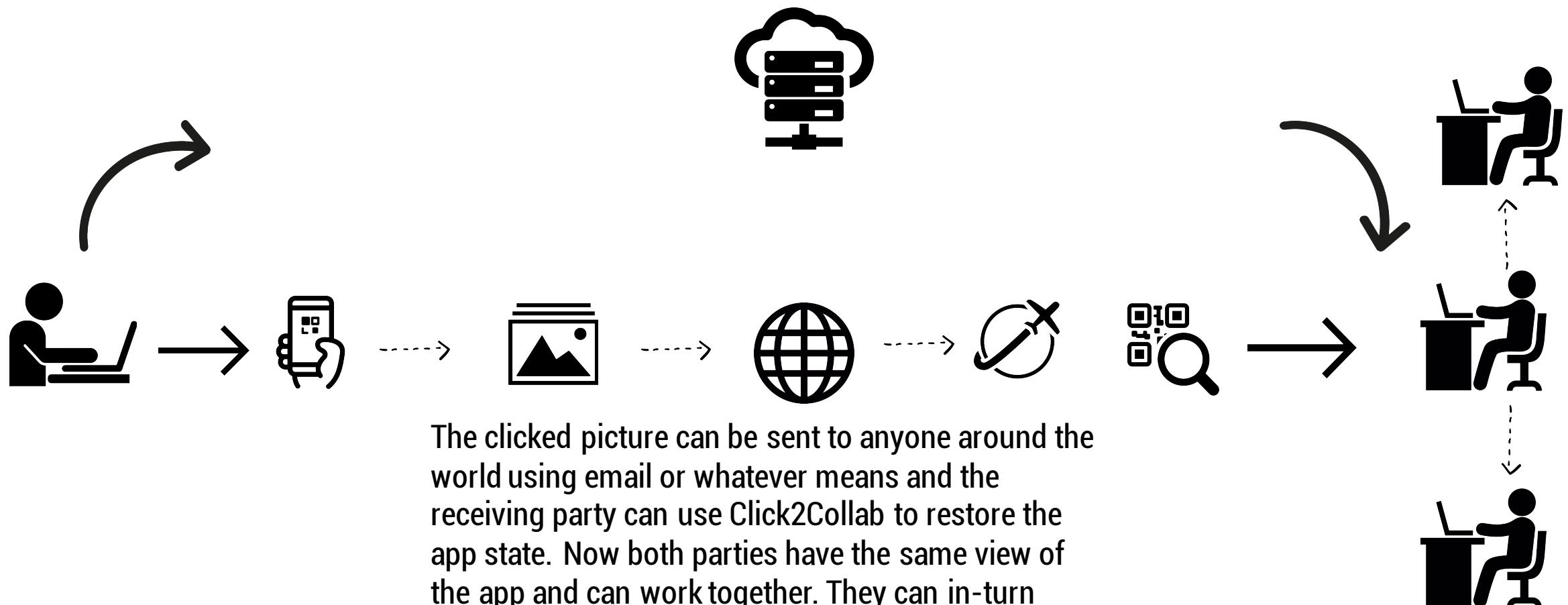
Person A working on app wants to work on it from a different.

He clicks a picture and sends it to the mobile device.

Click2Collab scans the QR-Code in the picture and restores the app state on the new device using encoded information. Person A can resume work where he left off.

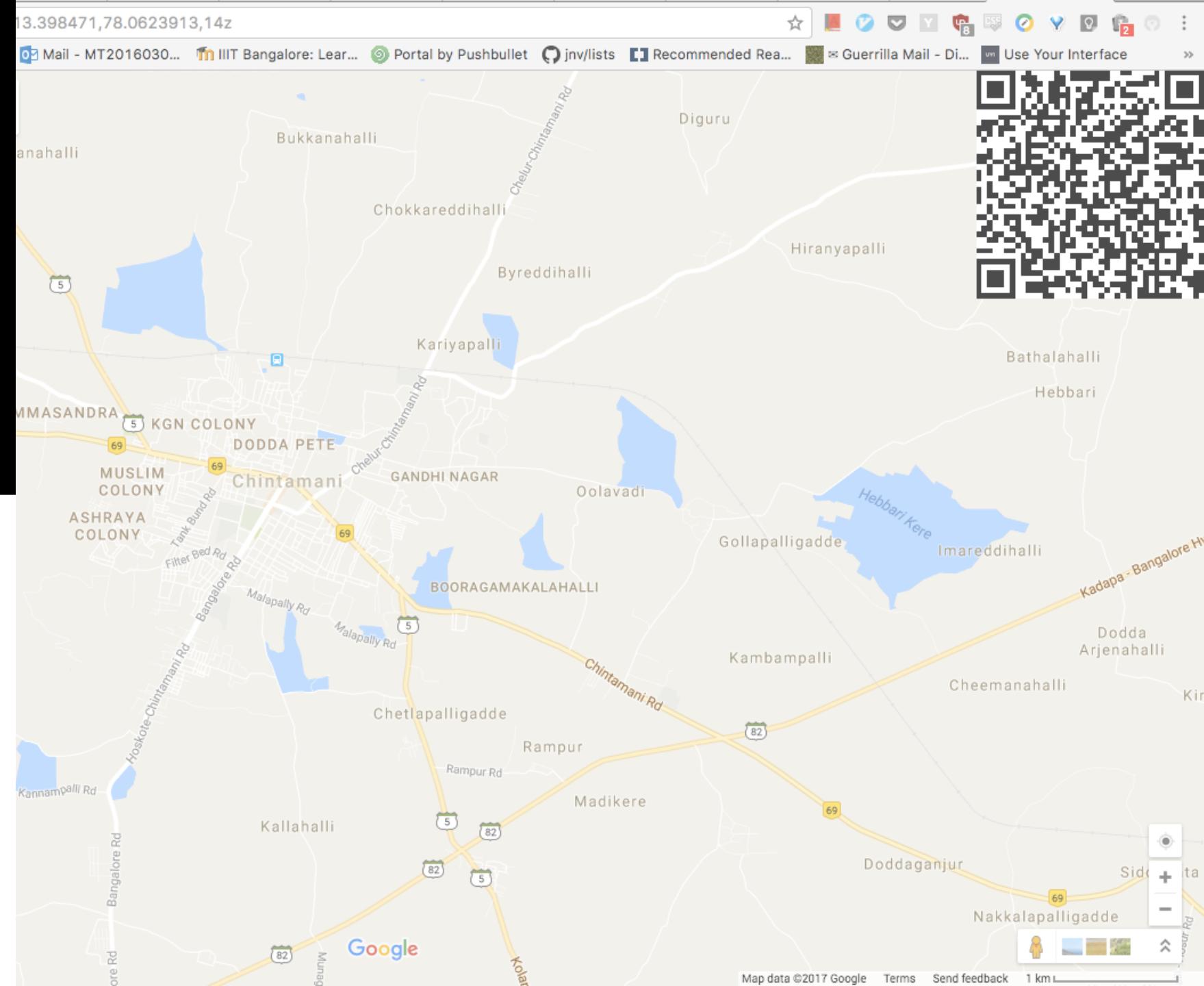
# BETWEEN DIFFERENT USERS

Click2Collab saves app state in the cloud transparently.



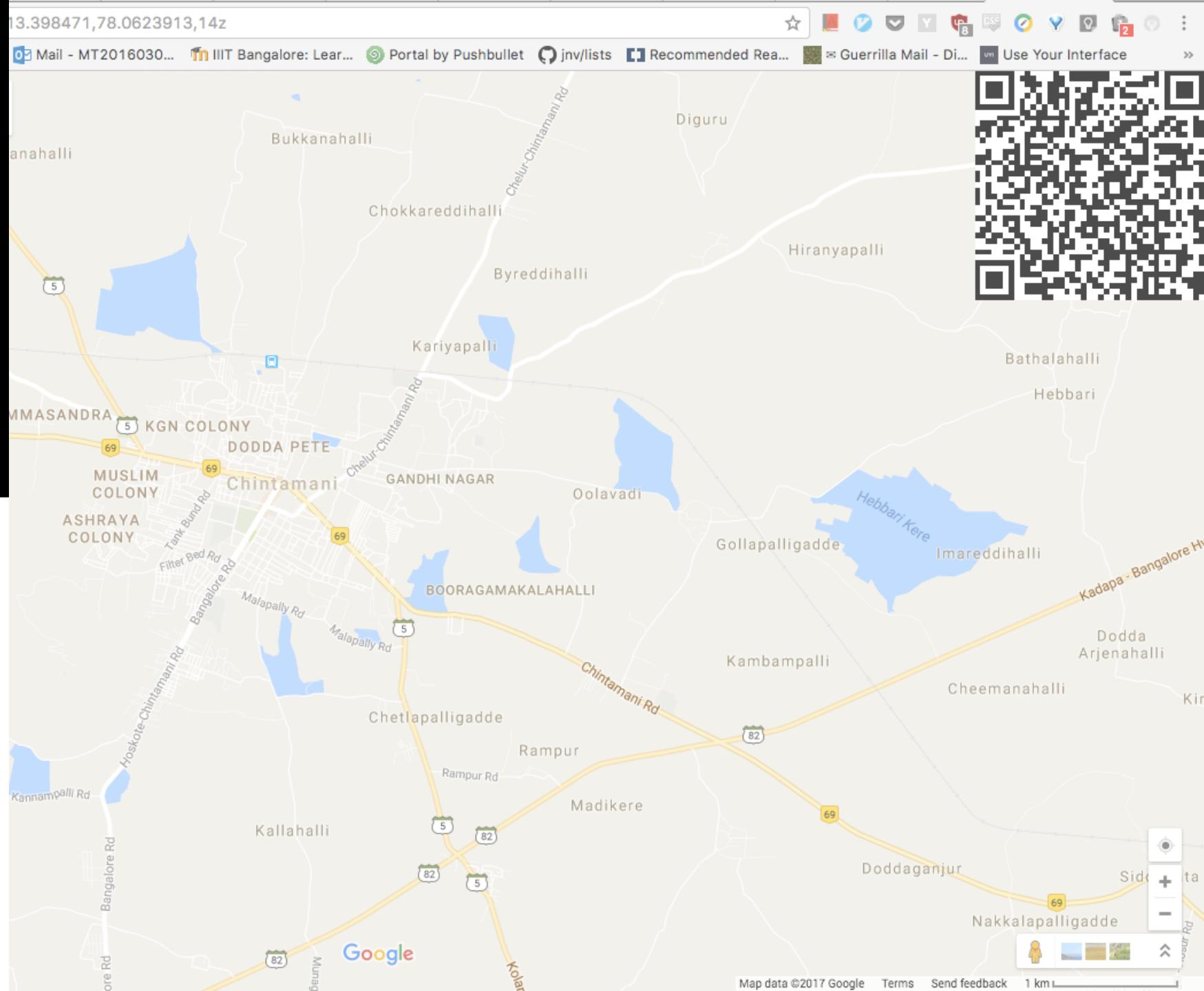
# SAMPLE USE CASE : Google Maps

- Person A wishes to share the exact location he is seeing to Person B.
- The app state is encoded in a QR-Code on screen. He clicks a picture of his screen and sends it to B.
- B scans the QR-Code in the picture and click2collab restores state of the map. Now B and A have the same state of the map.

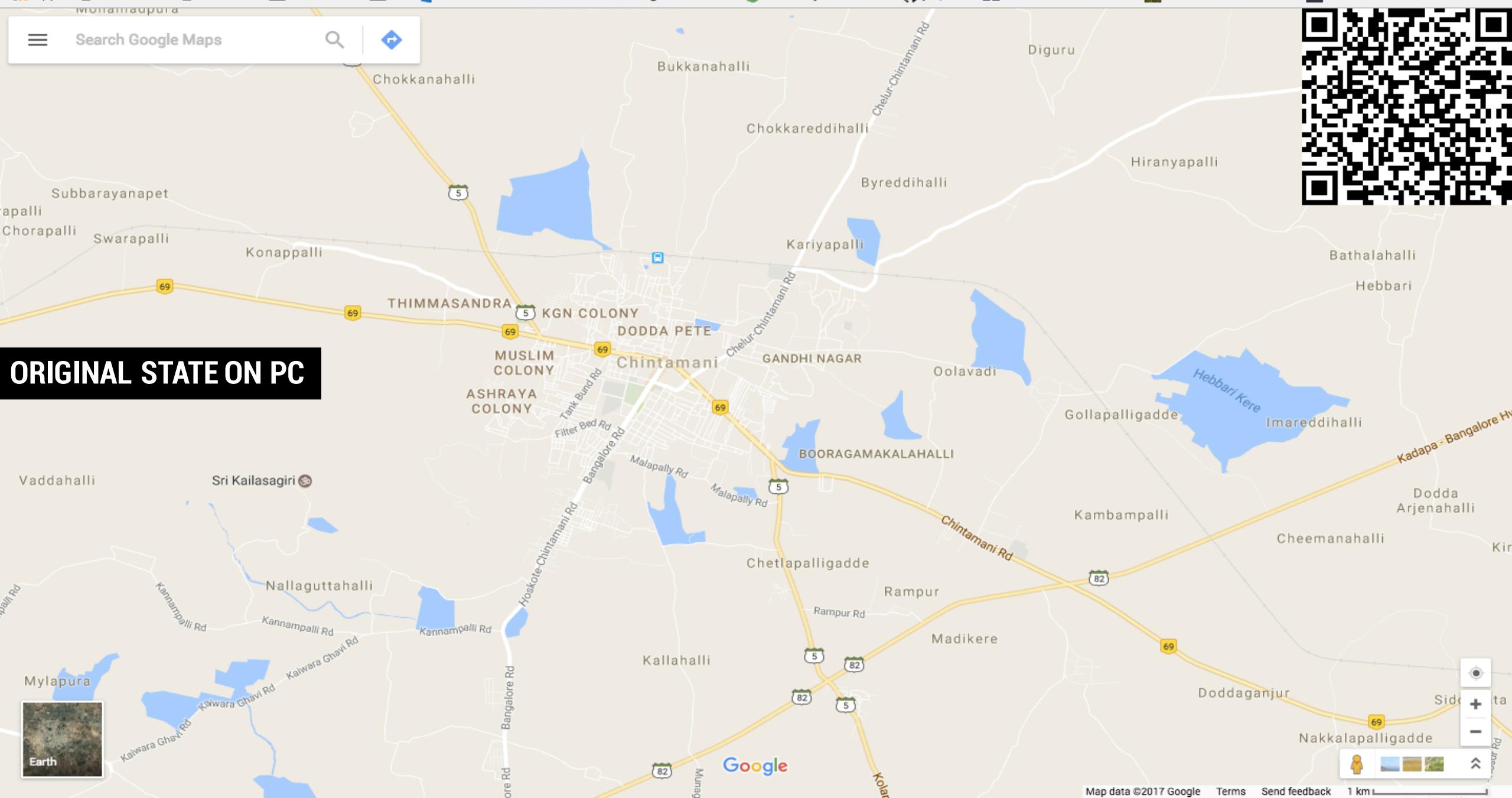


# PROOF OF CONCEPT

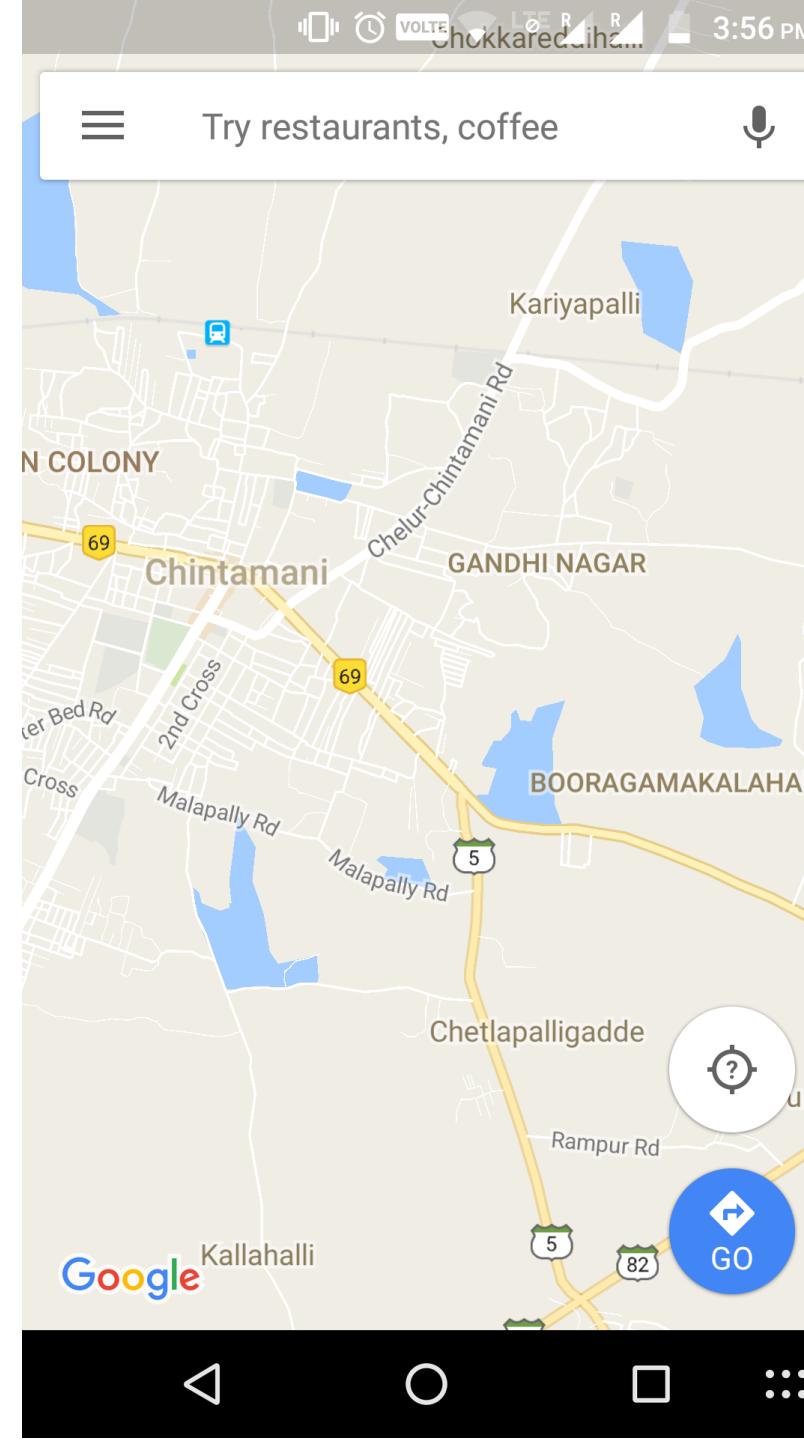
- We developed a simple app to share current state between PC and mobile device.
- User clicks a picture of the current browser window which is sent to collaborator.
- Collaborator scans the QR-Code to restore the state in his device.
- State information encoded in a QR-Code is used to facilitate the state transfer.



# ORIGINAL STATE ON PC

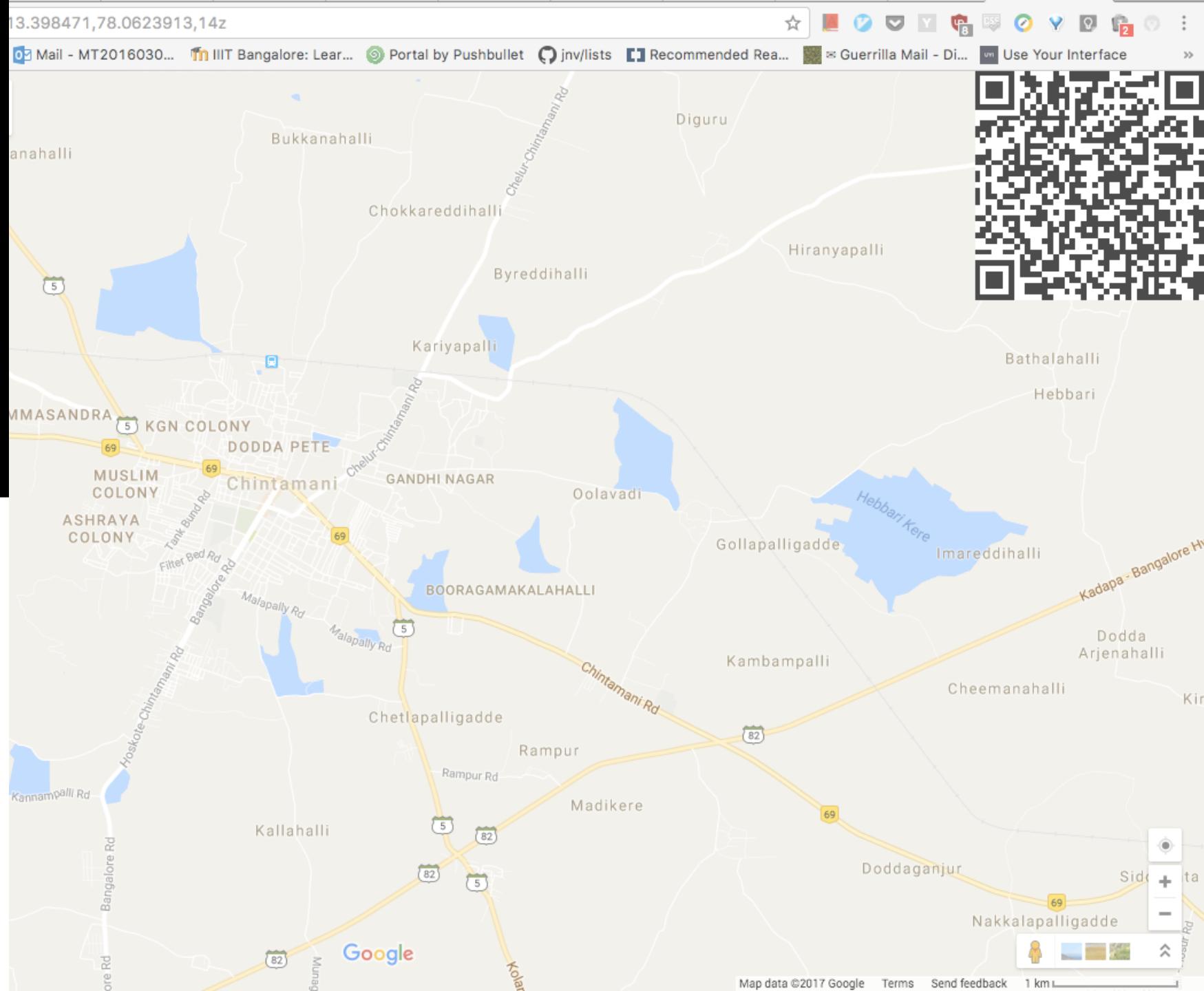


## RESTORED STATE ON MOBILE DEVICE



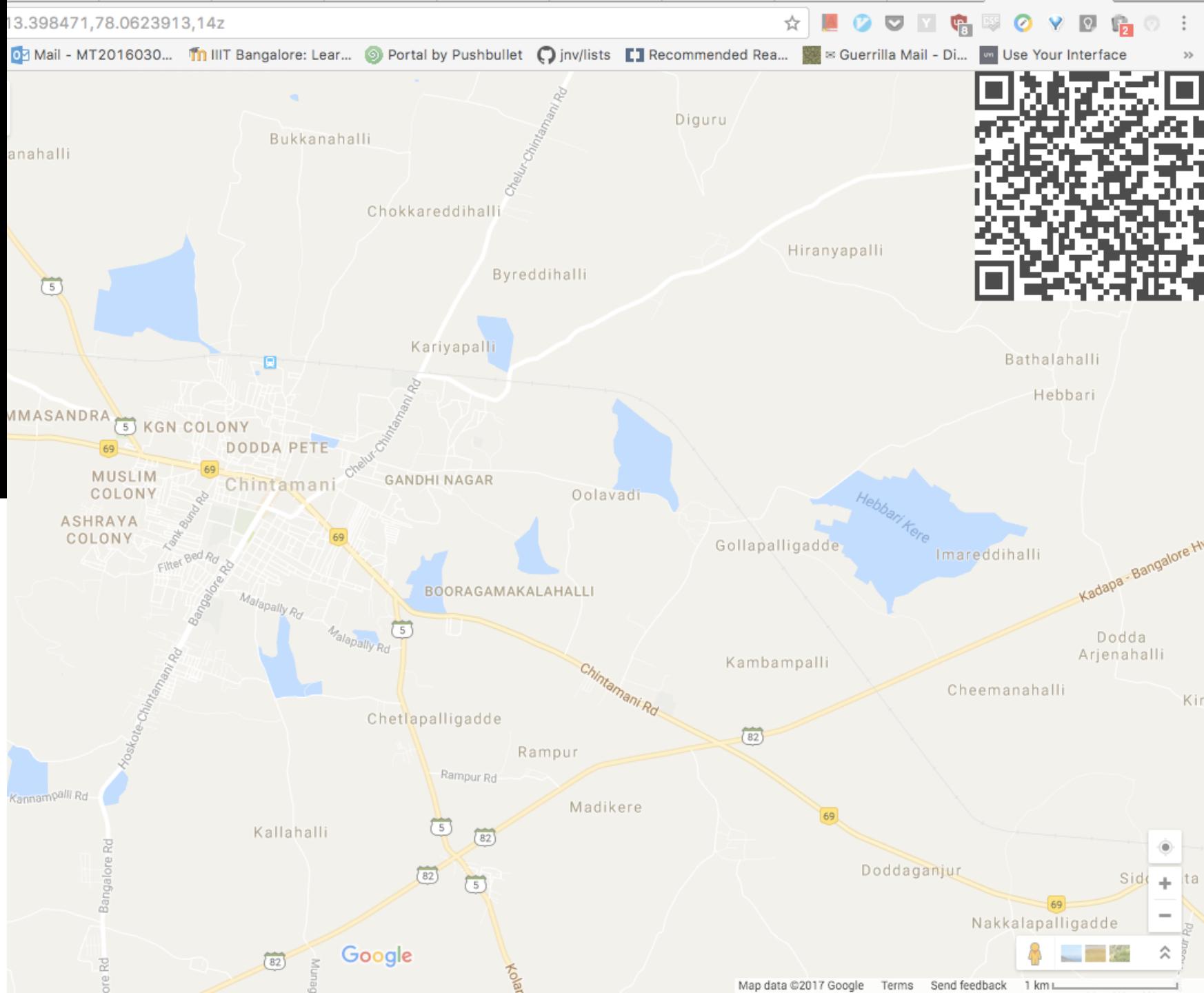
# TECHNICAL DETAILS

- Encode app state in a QR Code.
- QR Code is dynamically updated as the user browses the map.
- Use any off-the-shelf QR Code reader on the mobile device to read the encoded information.
- Use the read information to restore state on the mobile device.
- Code available at  
<https://goo.gl/RoYBoQ>



# WHY ?

- Can be put to use in a variety of situations.
- Provides an easy way to share, collaborate and work on a project.
- Shared info can be encrypted for better security.
- Accessible to even non-technical users.
- Requires nothing more than a smartphone camera to use.

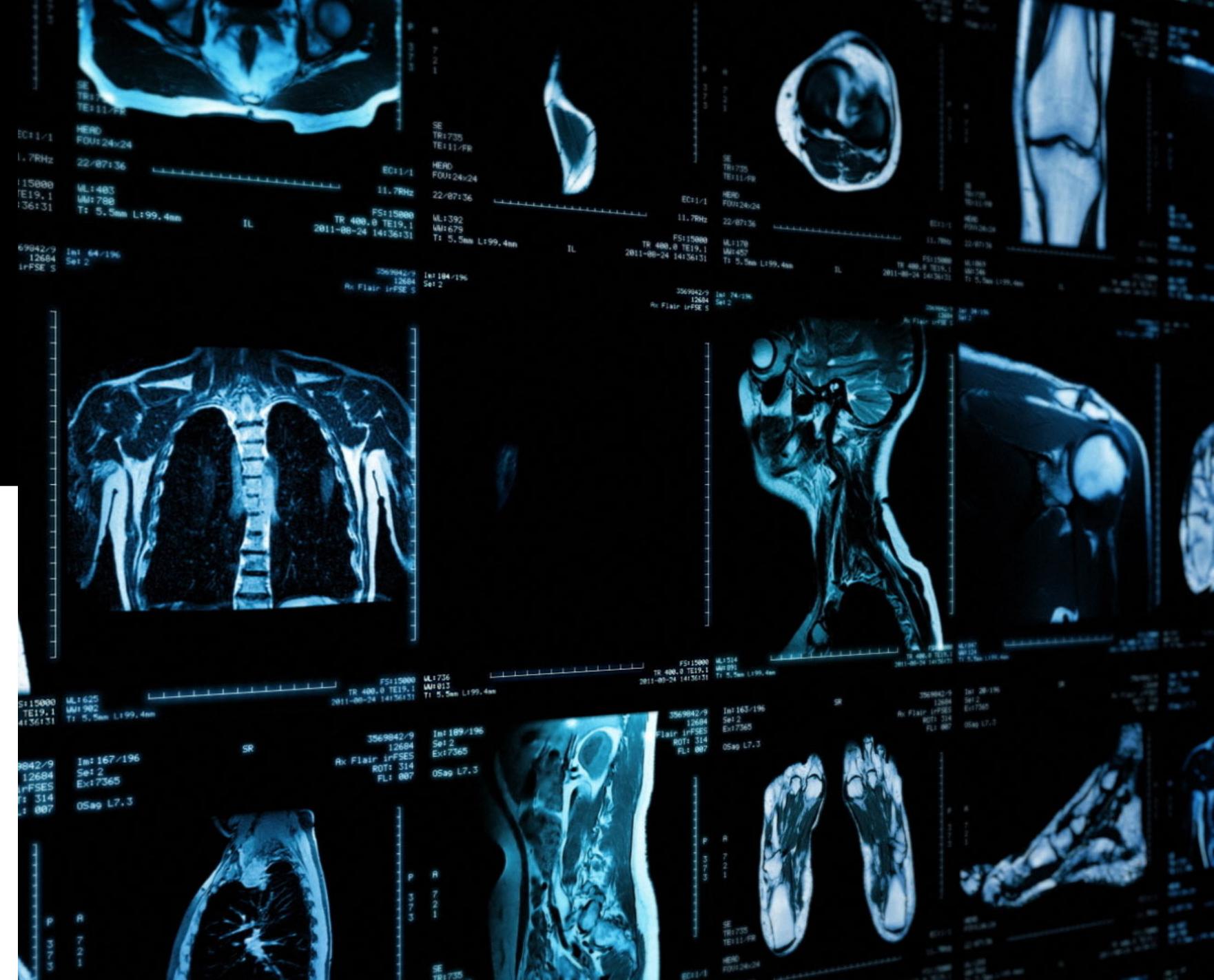


# WHERE ?



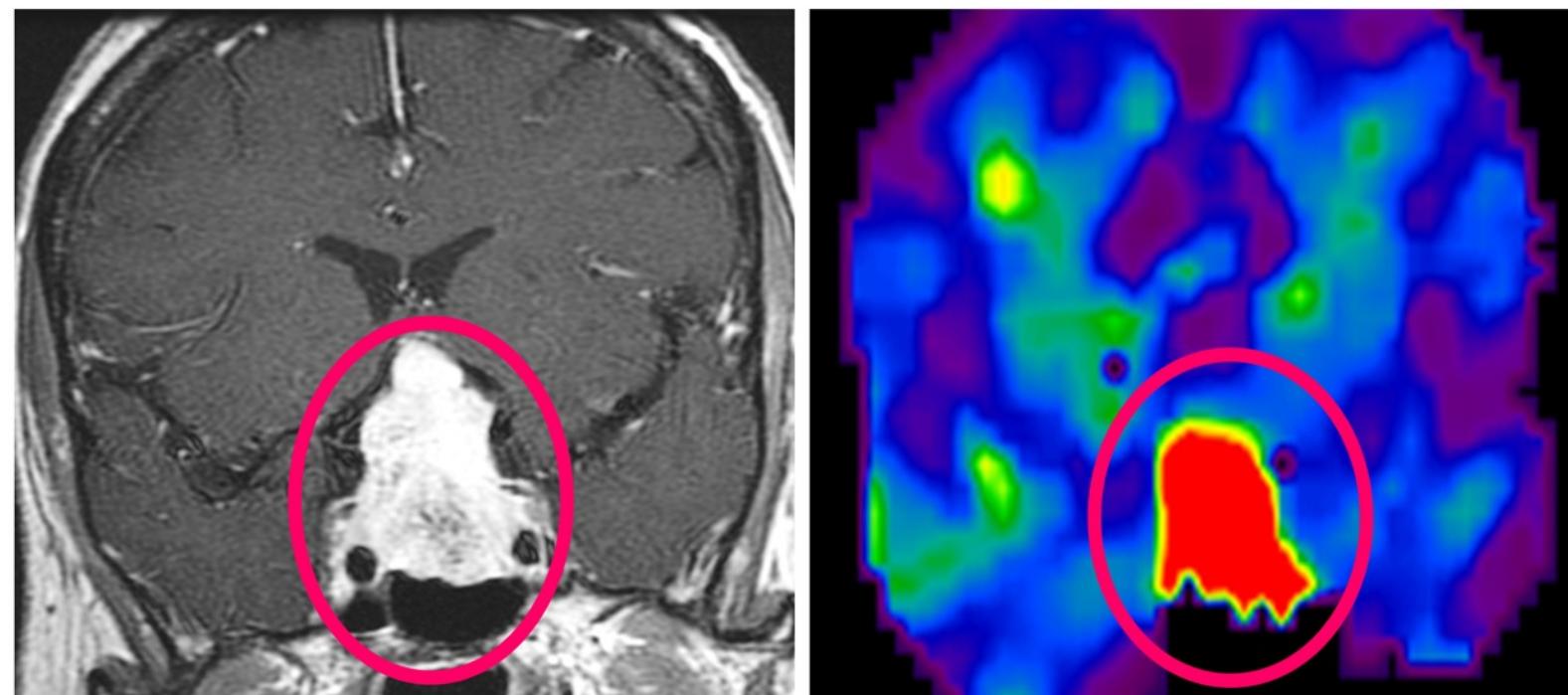
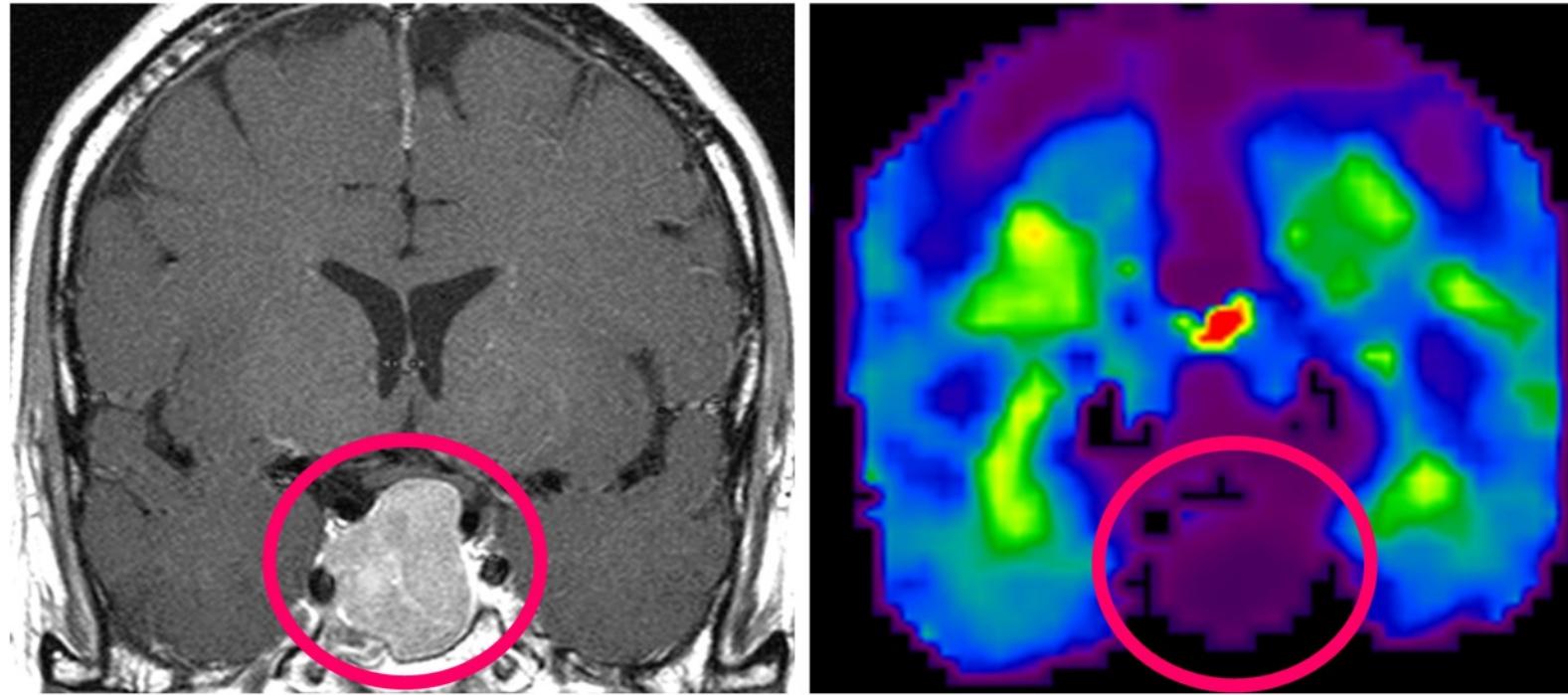
# MEDICAL IMAGING

- Medical imaging technology has revolutionized health care over the past 30 years, allowing doctors to find disease earlier and improve patient outcomes.
- Marking in medical images help to identify and draw attentions to region of interest – be it a tumor or affected area.

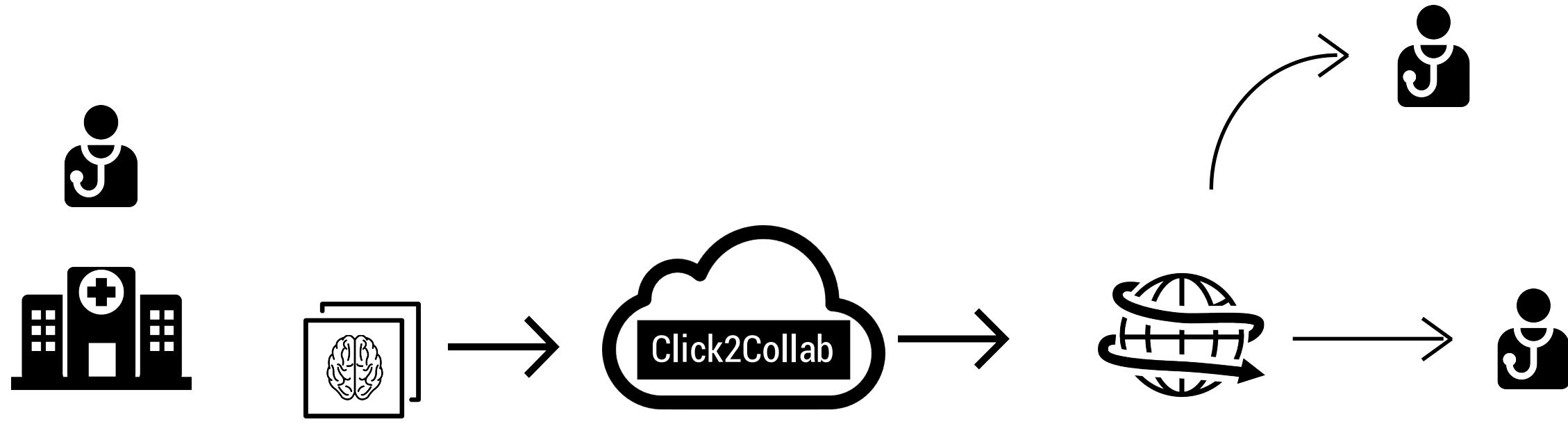


# MEDICAL IMAGING

- There is a need for clinical collaboration in the medical field.
- Click2Collab will allow doctors to collaborate and seek expert advice by providing a means to share info about regions of interest.
- Can simplify the process of sharing medical information.



# POSSIBLE USE CASE : NEUROSURGEON



A neurosurgeon wants to seek expert advice regarding some MRI data. He marks the regions of interest within the medical app and sends it to experts around the globe using a simple picture facilitated by Click2Collab.

The experts around the world are able to restore the app state from the picture using Click2Collab and collaborate with the doctor in coming to a proper prognosis. The encoded app state in the picture is encrypted. So no one other than the designated parties can use it.



**THE FUTURE LIES IN COLLABORATION**

**CLICK2COLLAB**



A dark blue background featuring a pattern of thin, light blue wavy lines that curve and flow across the surface, creating a sense of motion.

THANK YOU