

MHEALTH IN INDIA: UTILIZING BIG-DATA TO DETERMINE THE HEALTHCARE NEEDS OF COMMUNITIES



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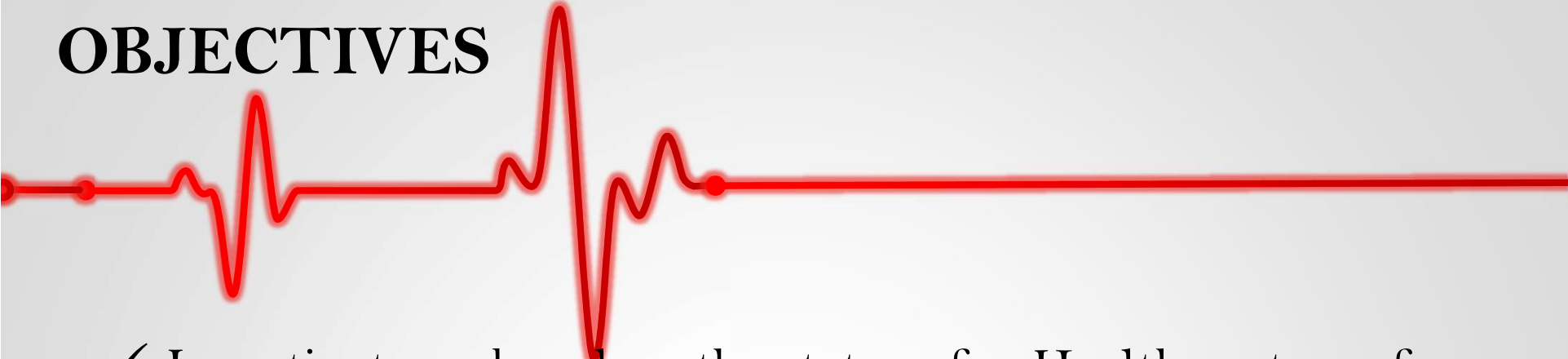
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BACKGROUND



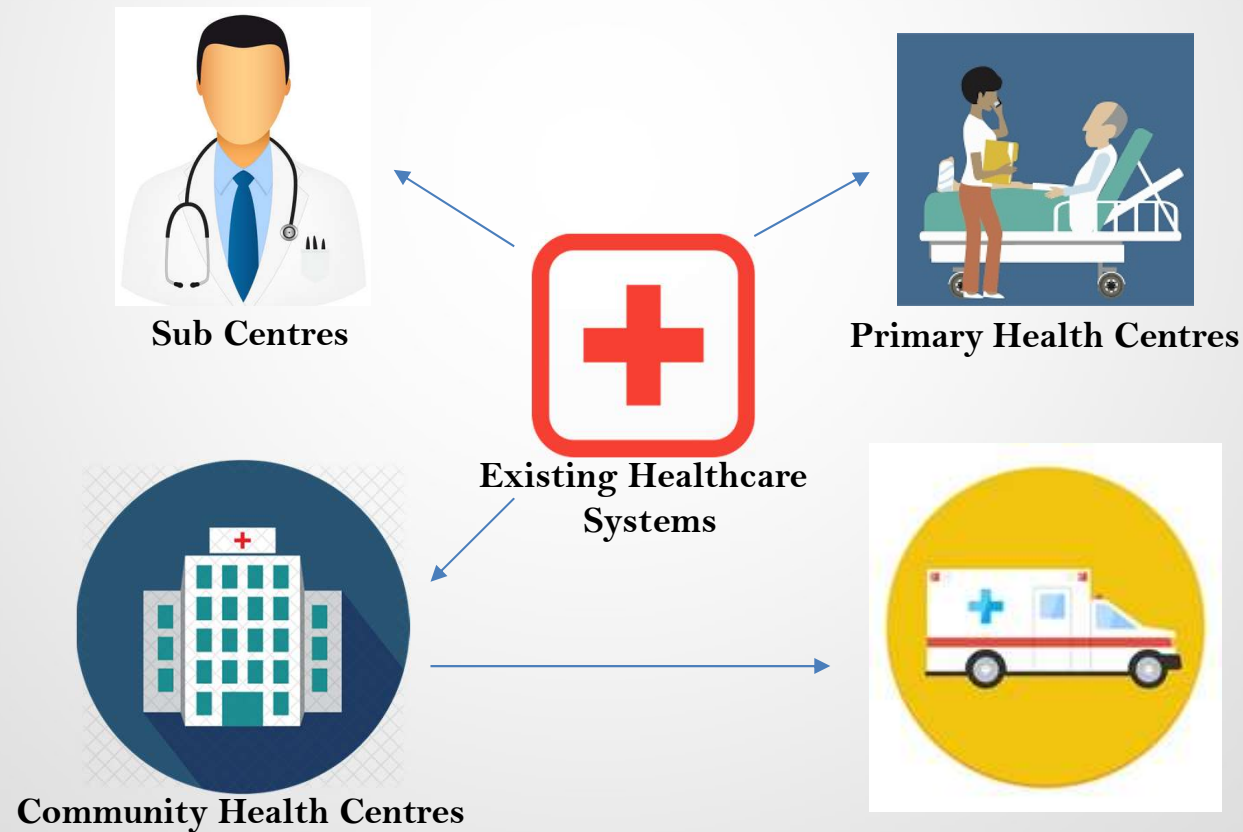
- ✓ Lack of Healthcare facilities in rural areas.
- ✓ The availability and usage of smart phones in Indian communities.
- ✓ The use of big data in healthcare sector.
- ✓ The growing technological application in healthcare.
- ✓ Unavailability of an easy and reliable healthcare option.
- ✓ Emergency response for a critical situation.

OBJECTIVES

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- ✓ Investigate and analyse the status of mHealth system of India.
 - ✓ Critically examine and evaluate the mHealth big data generated to determine the healthcare needs according to regions and individuals.
 - ✓ Provide recommendations for the efficient use of analysed big data for improved healthcare policies by various authorities.

HEALTHCARE AND mHEALTH SYSTEM IN INDIA

EXISTING HEALTHCARE FACILITIES



HEALTHCARE AND mHEALTH SYSTEM IN INDIA



mHEALTH IN INDIA

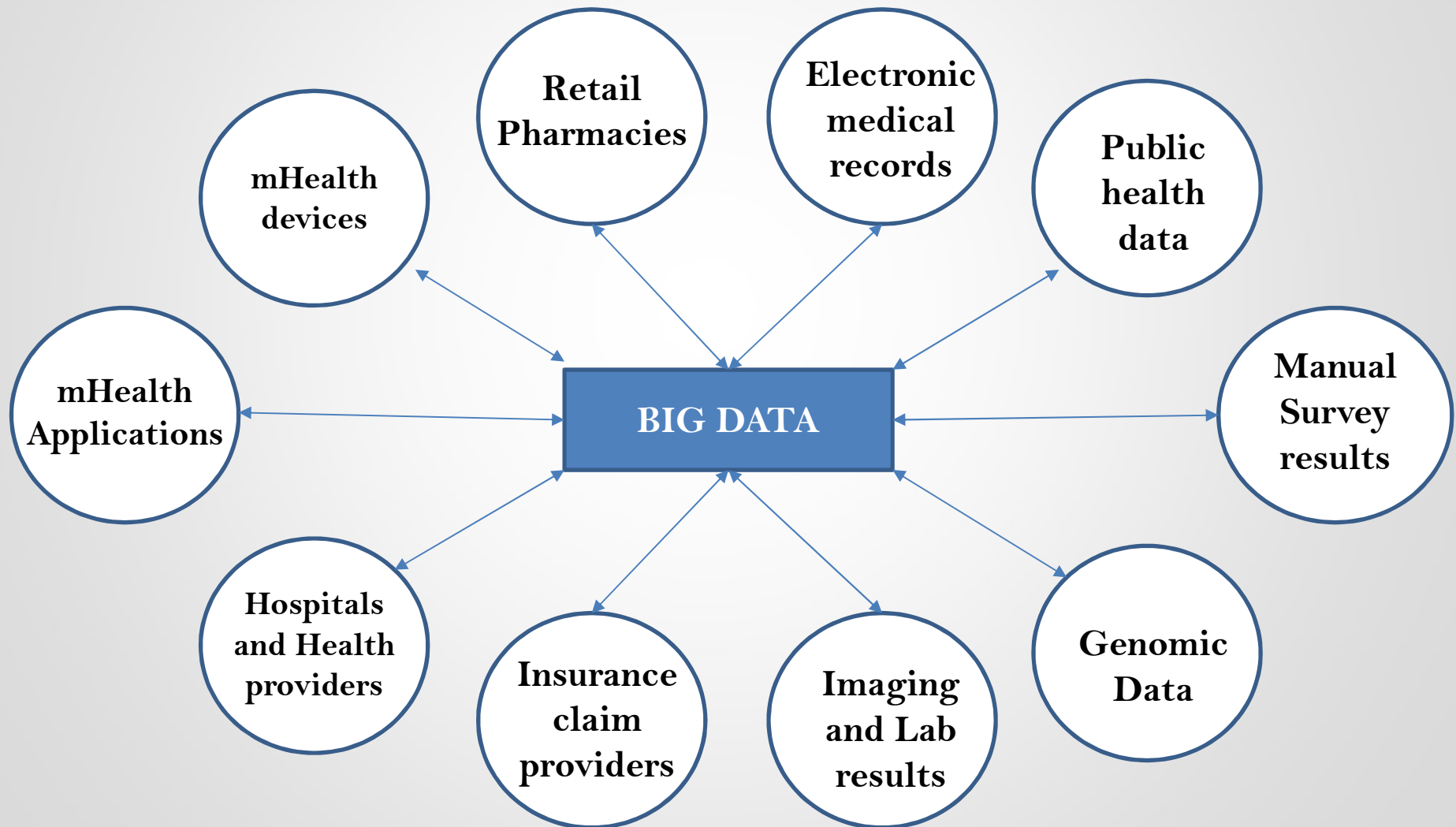
- **69% of the households in India have mobile phones with internet connectivity.**
- **Wearable devices drive 50% of total app interactions.**
- **31,000 health related apps and more than 142 million downloads**

HEALTHCARE AND mHEALTH SYSTEM IN INDIA

mHEALTH IN INDIA



BIG DATA GENERATED IN INDIA'S MHEALTH SYSTEM



ANALYSING THE mHEALTH BIG DATA

mHealth Big Data Received from different Sources

Preliminary Filtering (If required)

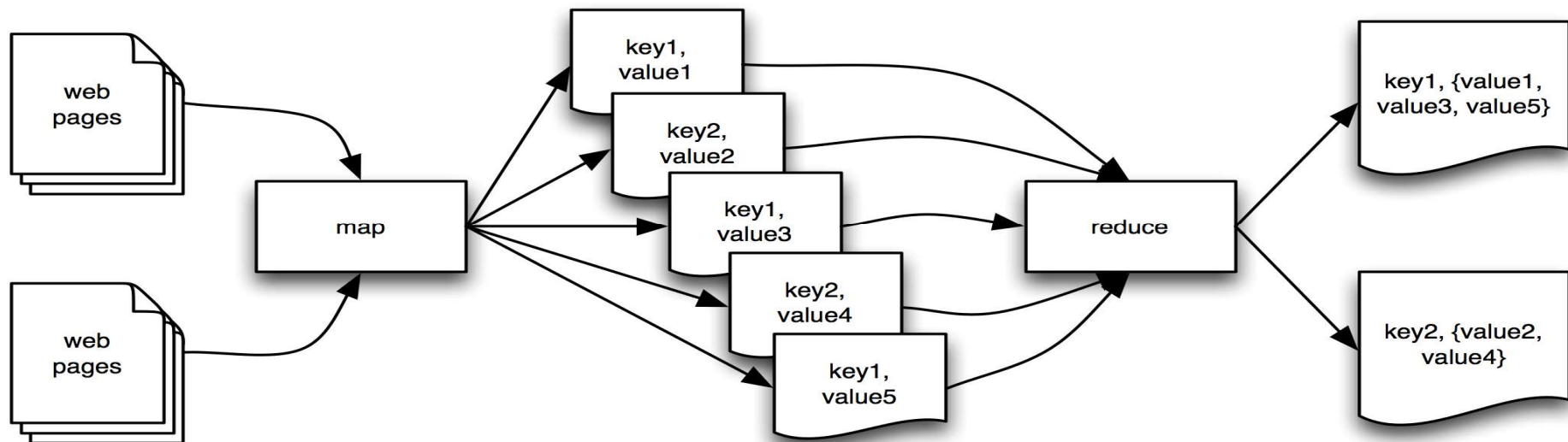
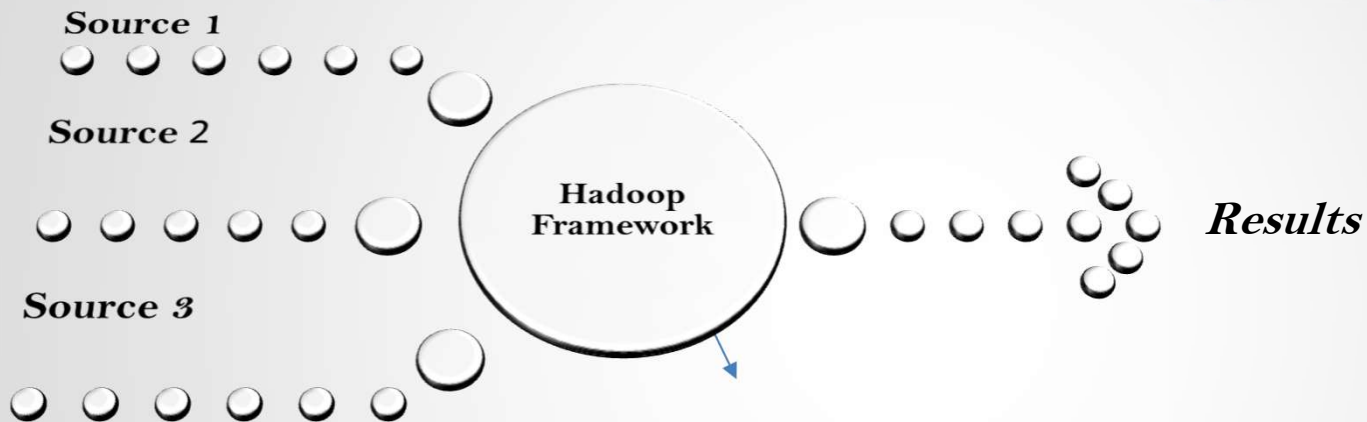
Data Analytics Using Hadoop Framework

Determine Healthcare needs of Community



ANALYSING THE mHEALTH BIG DATA

HADOOP MECHANISM

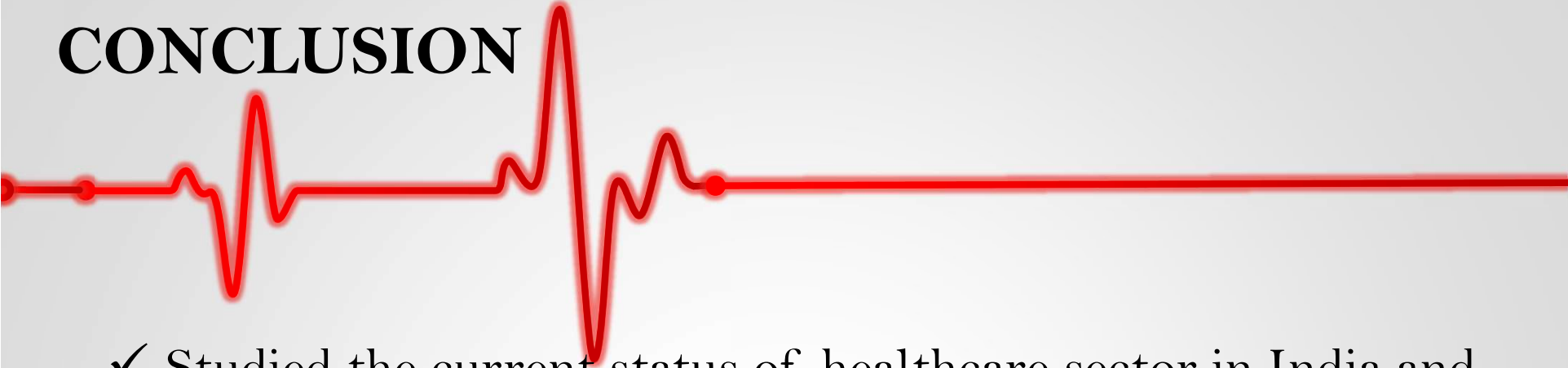


RECOMMENDATIONS



- ✓ Perceiving an idea on the common diseases in an area, and take the steps to prevent it.
- ✓ Suggesting clinical availability or Pharmaceuticals Franchise at the right place
- ✓ Arranging Emergency response systems in rural areas at right time
- ✓ Distributing medications by analysing the spreading diseases in an area.
- ✓ Provide online suggestion to the individuals through applications or via messages.
- ✓ Provide prescriptions by querying the individual's disease symptoms.

CONCLUSION

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- ✓ Studied the current status of healthcare sector in India and the existing mHealth Systems.
 - ✓ Determined the method to analyse the big data and utilize the analysed big data to find out the healthcare needs of communities.
 - ✓ Provided recommendations to improvise the current healthcare systems and to implement new ideas.

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THANK YOU

