

# MAD ABOUT IDEAS

## eGovernance Simplified

Idea Presentation by Krishna Kartik Darsipudi

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# Company Purpose

To Simplify eGovernance:

- To aggregate the data of various govt departments and provide Analytics-As-A-Service to various other departments, startups and for research
- To provide a single pane identity view for every citizen of Andhra Pradesh and to ensure awareness of govt schemes & benefits to every citizen

# Problem

## Common Man:

- While AP Government and our beloved CM, Sri. Chandrababu Naidu, have a great vision in establishing transparency and e-governance in the state of Andhra Pradesh, today I believe some of these services and information are ***not reaching every corner of the state***, especially to the people in remote villages/towns & tribal areas
- Illiteracy and ignorance of people ***are exploited by the middlemen*** and this gives room for corruption
- Too many discrete websites are confusing. People ***do not have a single pane view*** of their identity, assets, bank a/cs, policies, applicable schemes, service requests etc

## Discrete Govt Databases:

- I assume all the various govt departments are having their respective IT Portals also have discrete databases. This ***doesn't allow to create holistic views of opportunities and threats and predictive models*** to help the citizens of AP.

For example:

- A futuristic map that shows which crop should be cultivated in which parts of AP over the next 3 to 6 months based on climate and soil conditions and help estimate the yield a farmer can expect
- Prediction of a specific tax collection to the govt of AP based on various climatic and geo-physical conditions over the next 6 to 12 months

# Solution

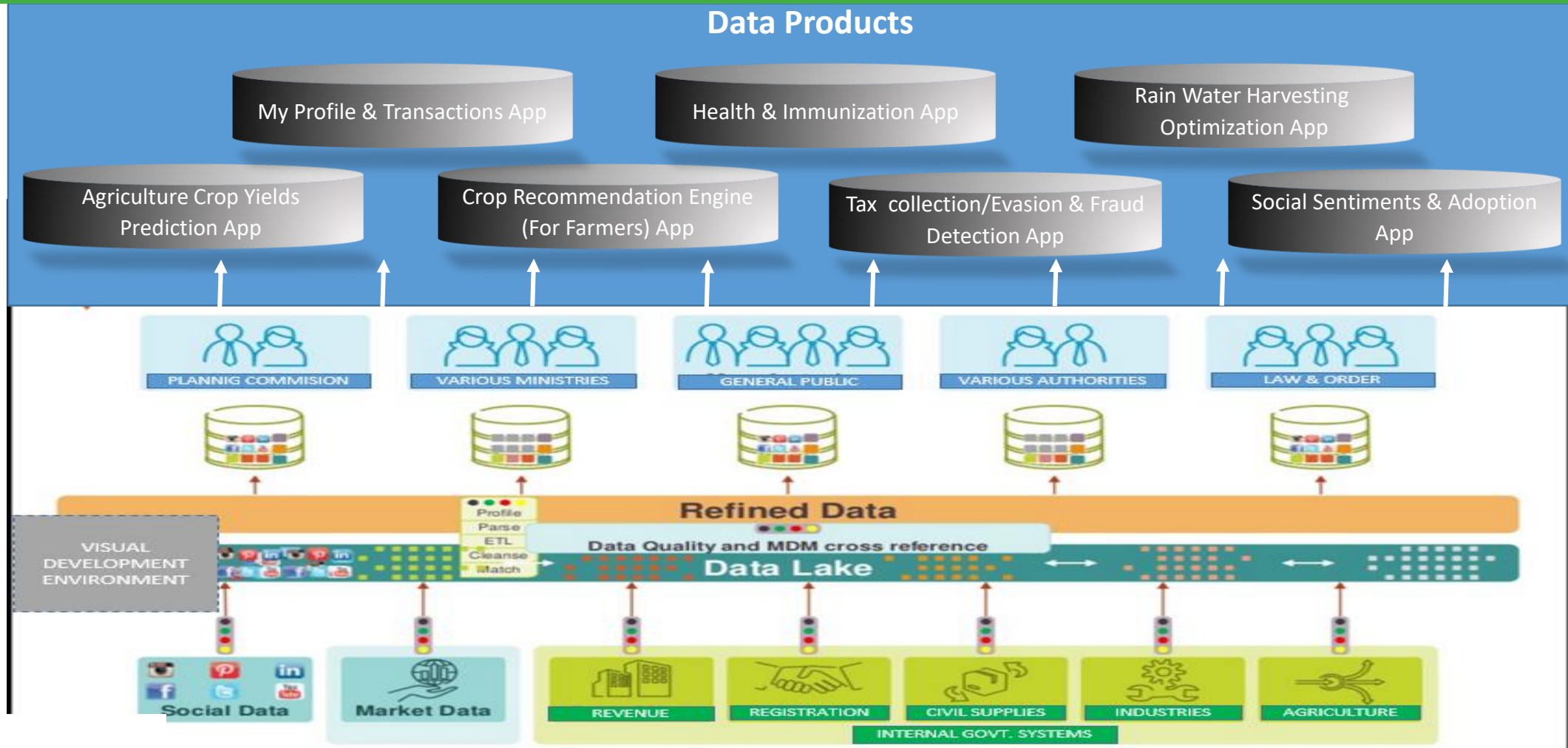
## Common Man:

- Build a consolidated platform/Next-gen UI that sits on the top of existing e-governance portals and ***offers a single pane view into a person's socio economic profile*** and the status of on-going service requests
- The front-end to be both a ***mobile and a web app*** that can be accessed through any device
- To handle the internet and connectivity issues, internet kiosks can be established in remote locations with devices larger screens that ***can work on low or no bandwidth***
- These kiosks should have applications that are built with very ***user friendly UI*** and are usable to even illiterates.

## Govt. Depts & Research Orgs:

- ***Aggregate*** the data from various govt. departments at a district/state level into a ***Big Data Lake***
- Expose the non-sensitive data to other departments and to research organizations in the form of ***Analytics-As-A-Service*** and through visual dashboards
- This data lake can help in producing ***meaningful analysis and new innovative ideas*** that help the common man

# Solution – Product for data analytics



# Solution – Products for Common Man

## My Profile

PHOTO

NAME: << XYZ >>

Aadhar	
PAN	
Voter ID	
Driving License	
Passport	
Banc A/c linked to Aadhar	
Mobile phone	
Landline phone	
Email	
Present Address	
Permanent Address	

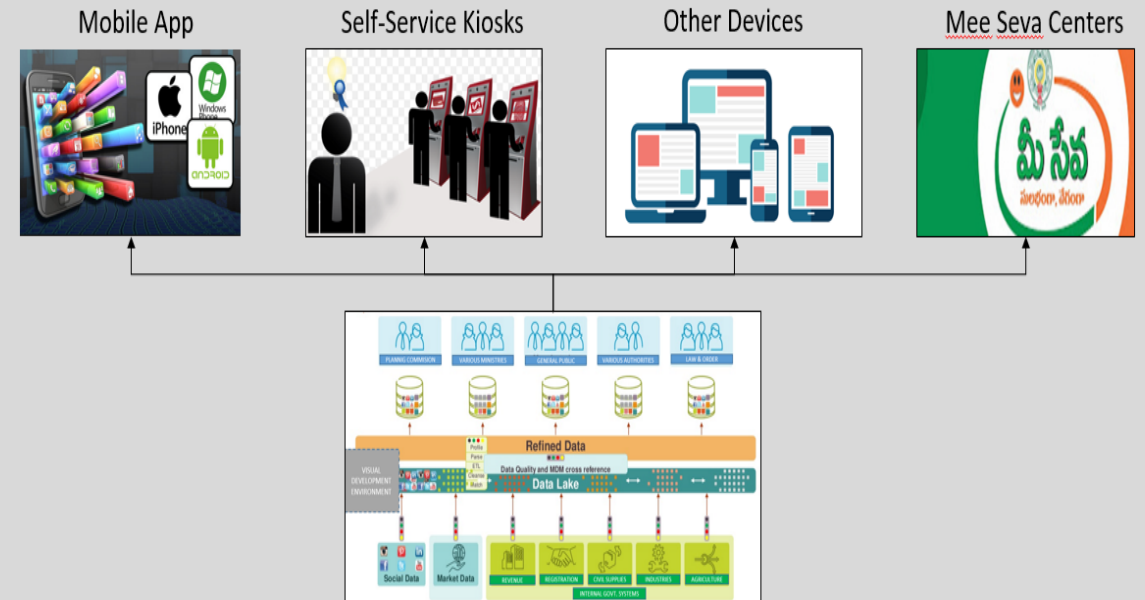
[Click here for OTHER SERVICES](#)

NAME: << XYZ >>

Electricity meters	
Vehicle Reg. Nos.	
Firms/Industries	
Agricultural land	
Commercial land	
Residential land	
Subsidies availed	
Other properties & assets	
Property Tax	
Income Tax	
Availed Cetificates	

[Click here for Status of existing Requests](#)

## Mee-Seva / Mee-Kosam Next-Gen UI & Low/No internet kiosks



Business Data Lake Architecture – Explained in the next diagram

# Why Now

*Our CM Sri. Chandrababu Naidu's vision can be realized sooner*

*I strongly believe anything that benefits people shouldn't be delayed*



# Business Model

- Work with the AP Govt's IT department on:
  - Developing the next gen UI, single pane view of the common man's identity, kiosks in rural areas that work with low or no internet bandwidth
  - Create a data lake with aggregating all the govt department's data to a single lake and provide a visualization layer and expose analytics as a service to other govt organizations, universities, research, start-up companies etc
- Engagement with the AP Govt's IT department can be on a
  - ***Managed Service Model*** – Provide, implement the solution & manage the service
  - ***Fixed Price Model*** – Provide, implement the solution



# Team

- Krishna Kartik Darsipudi – VIT 4<sup>th</sup> Sem CSC student
- Rajesh Kumar Darisipudi – IT Director in a MNC
- Will include others depending on the financial model

# Financials

(High Level Estimates)

Hardware	Type	Cost
Storage/Compute (2PB)	Dell/Nutanix, Amazon Cloud, Cisco UCS	Rs. 1,70,00,000
RAM (1 TB)	Dell/HP/AWS	Rs. 90,00,000
Software	Type	Cost
Apache Hadoop/Hbase/Hive (1 PB)	Open Source	Nil
Apache Spark (data processing & transformation engine)	Open Source	Nil
MY SQL Db (1 PB)	Open Source	Nil
MemSQL Db (in memory DB)	Open Source	Nil
D3.js ( Reporting)	Open Source	Nil
Python (Anaconda)/R (machine learning)	Open Source	Nil
Total (HW & SW cost)		Rs.2,60,00,000

Platform Dev/Support	Cost
Big Data Dev/Support	Rs 5,00,000/Month
Database Dev/Support	Rs 2,00,000/Month
Software Development	Cost
ETL Development	Rs 10,00,000
Data Base Modeling Dev	Rs 5,00,000
Data Cleansing/ Validation	Rs 5,00,000
Security	Rs 4,00,000
Machine Learning APIs Dev	Rs 25.00,000
Product Dev	Rs.4,00,000 each
Dashboard Reporting	Rs 10,00,000
Total Dev Cost (with one product)	Rs.63,00,000

THANK YOU