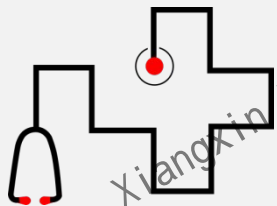
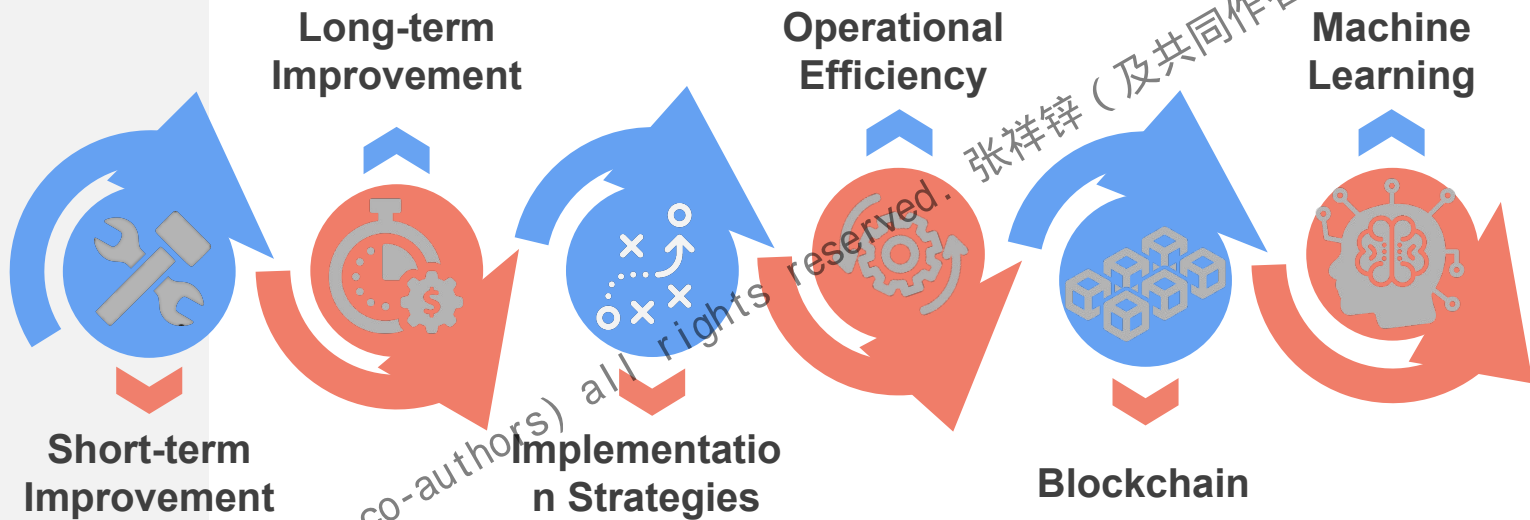


NAVINNA HOSPITAL

Deliverable 2

Liangxi Dou|Priya Kumari|Hong Wei Lee|Raveena Pandhare|Dieu Uyen Tran|Xiangxin Zhang

OUR AGENDA



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SHORT-TERM IMPROVEMENTS

Paper files □ Databases

Better data flexibility,
data security & access

RMO notifies nurse that
database has been

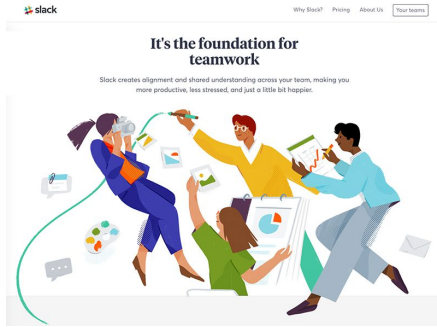
Saves time by eliminating
need to manually receive
and return application

Blockchain technology

Better data security



LONG-TERM IMPROVEMENTS



WEBSITE

Allow patients to check admission availability, input information & print admission bracelet



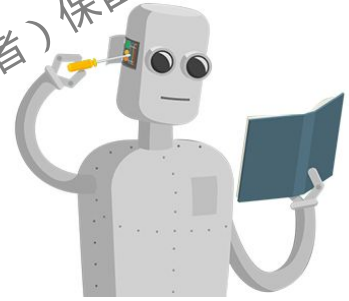
Save time for patients & staff

CRM

Track sign-ups from new patients & sign-ins from old patients



Allow hospital to give admissions preference & privileges



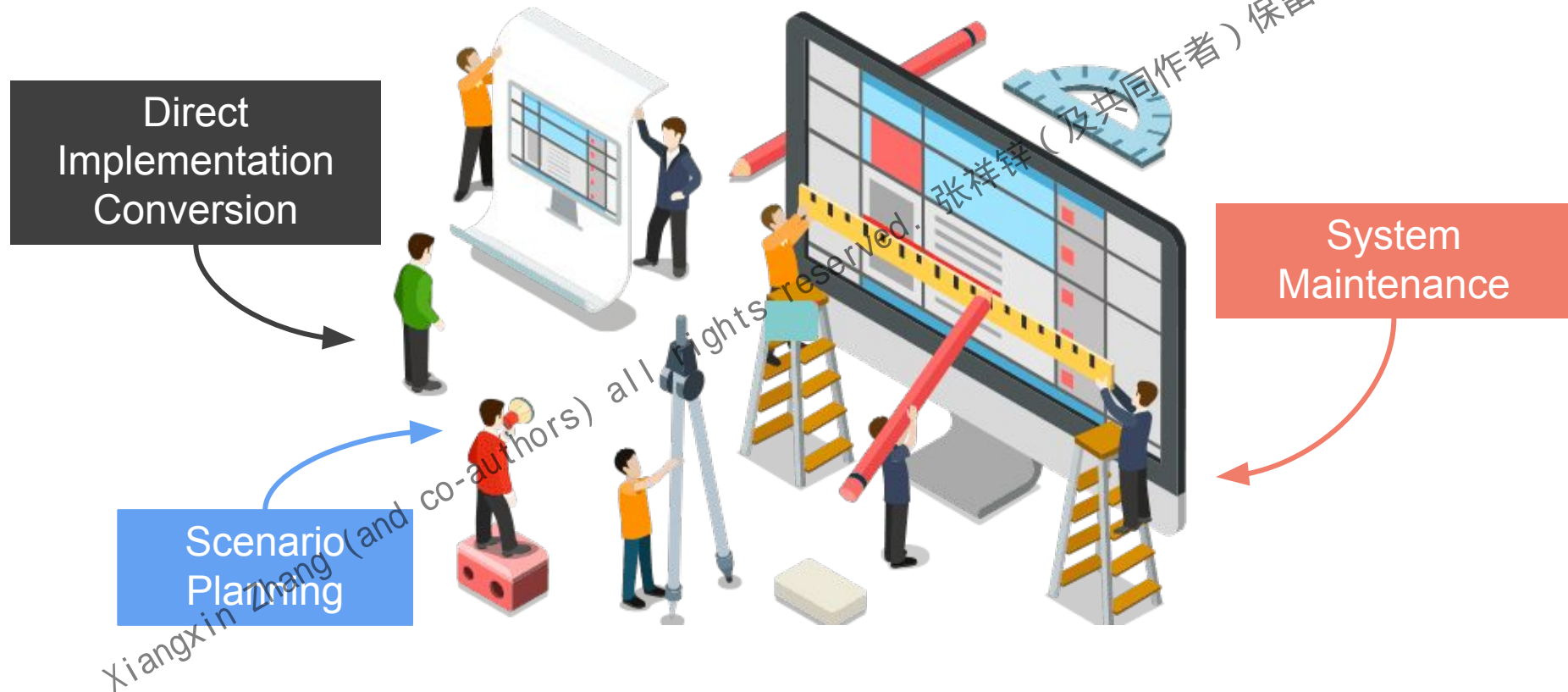
MACHINE LEARNING

Assist doctors determining symptoms and medicines to prescribe



Reduce treatment time, allow doctors to treat more patients & patients to get home faster

PROCESS APPROACH & IMPLEMENTATION STRATEGIES



OPERATIONAL EFFICIENCY



**Enhance Security
& Compliance**



**Dynamically Provision
Virtual/Cloud System**



**Improve Data
Analytics/Big Data**



**Onboard & Offboard
Staff & Patients**



**Automate Help Desk &
Support Procedures**

BLOCKCHAIN

Block linked by **Cryptography**

Unfalsifiable
transactions & records

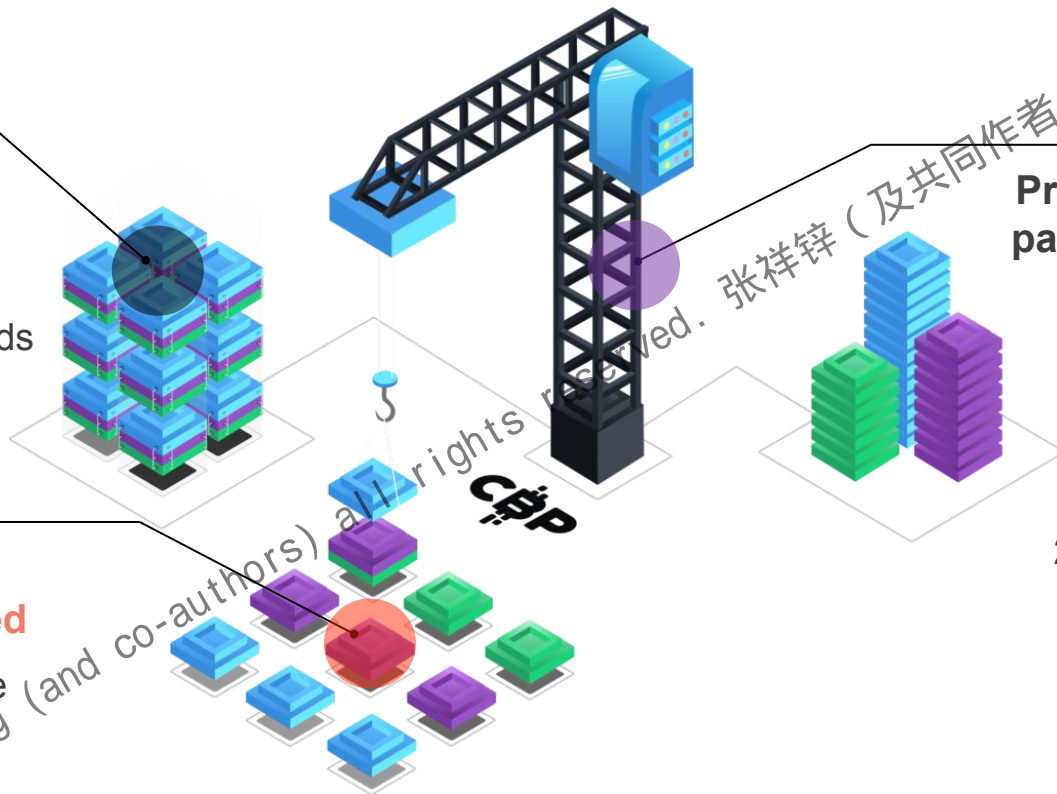
Patient detail **encrypted & stored inside**

Enable fast & secure
transmission of
healthcare data by
decentralized system

Provide **immutable** patient information

1, Limit access to
records to avoid
data tampering

2, Patient can track
transaction and
admission history



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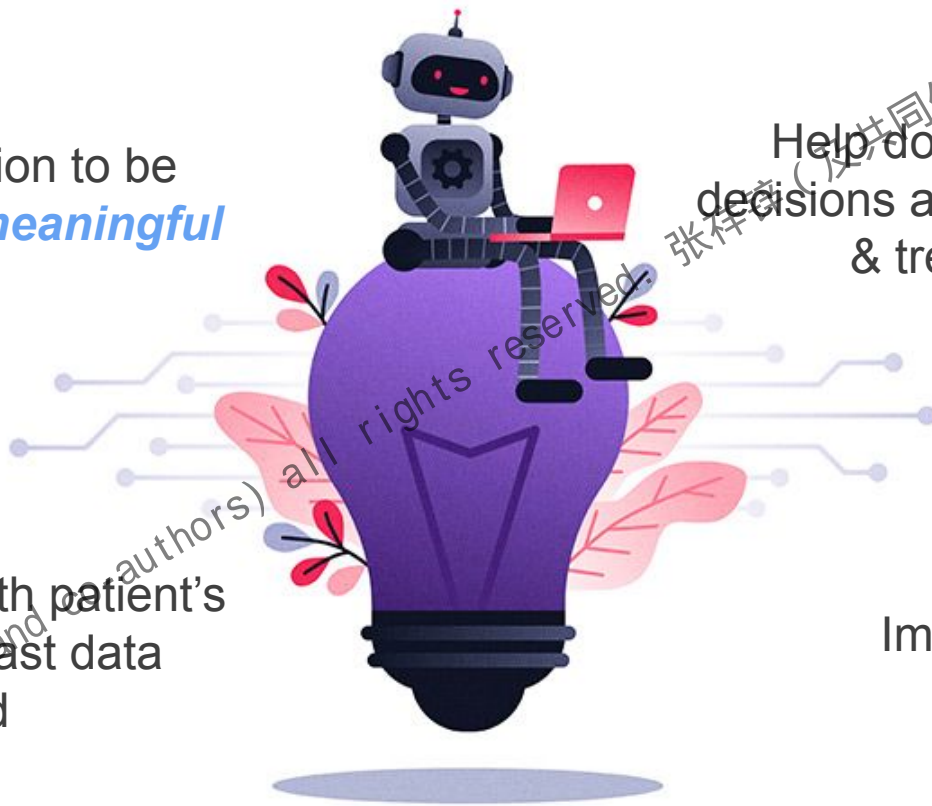
MACHINE LEARNING

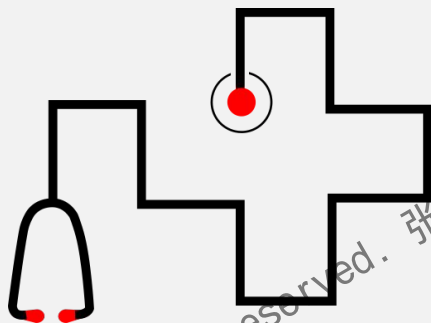
Process information to be more **readable** & **meaningful**

Provide doctors with patient's risk based on past data collected

Help doctors making better decisions about patient diagnoses & treatment options

Improve doctors' **efficiency**





THANK YOU

Questions?

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