



THE EVOLUTION OF THE CONVEYANCE AND SHARING OF INFORMATION AND DATA TOWARDS GLOBAL HUMAN KNOWLEDGE CIVILIZATION AND HOW IT HAS BEEN SHAPED IN THE PAST, PRESENT AND FUTURE

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TABLE OF CONTENTS

EVOLUTION OF COMMUNICATION PROCESSES

THE FUTURE OF COMMUNICATIONS

INTELLIGENT TRANSPORT SYSTEM

CHANGING NATURE OF INFORMATION

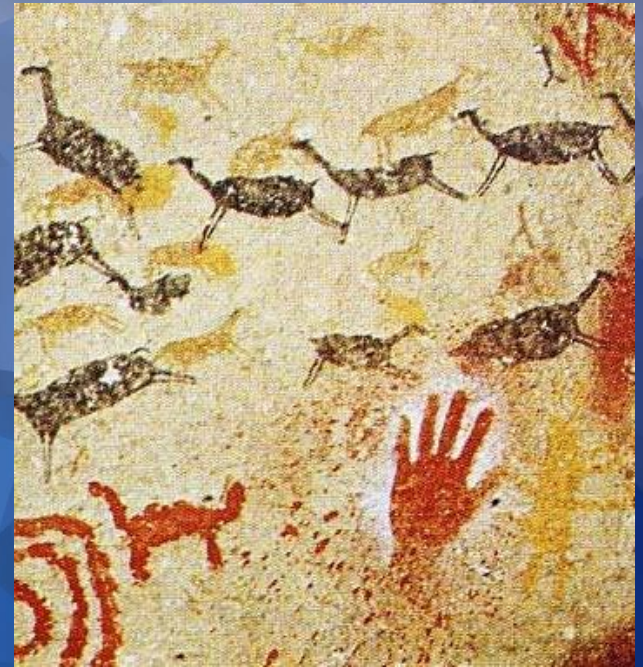
ISSUES AND CHALLENGES

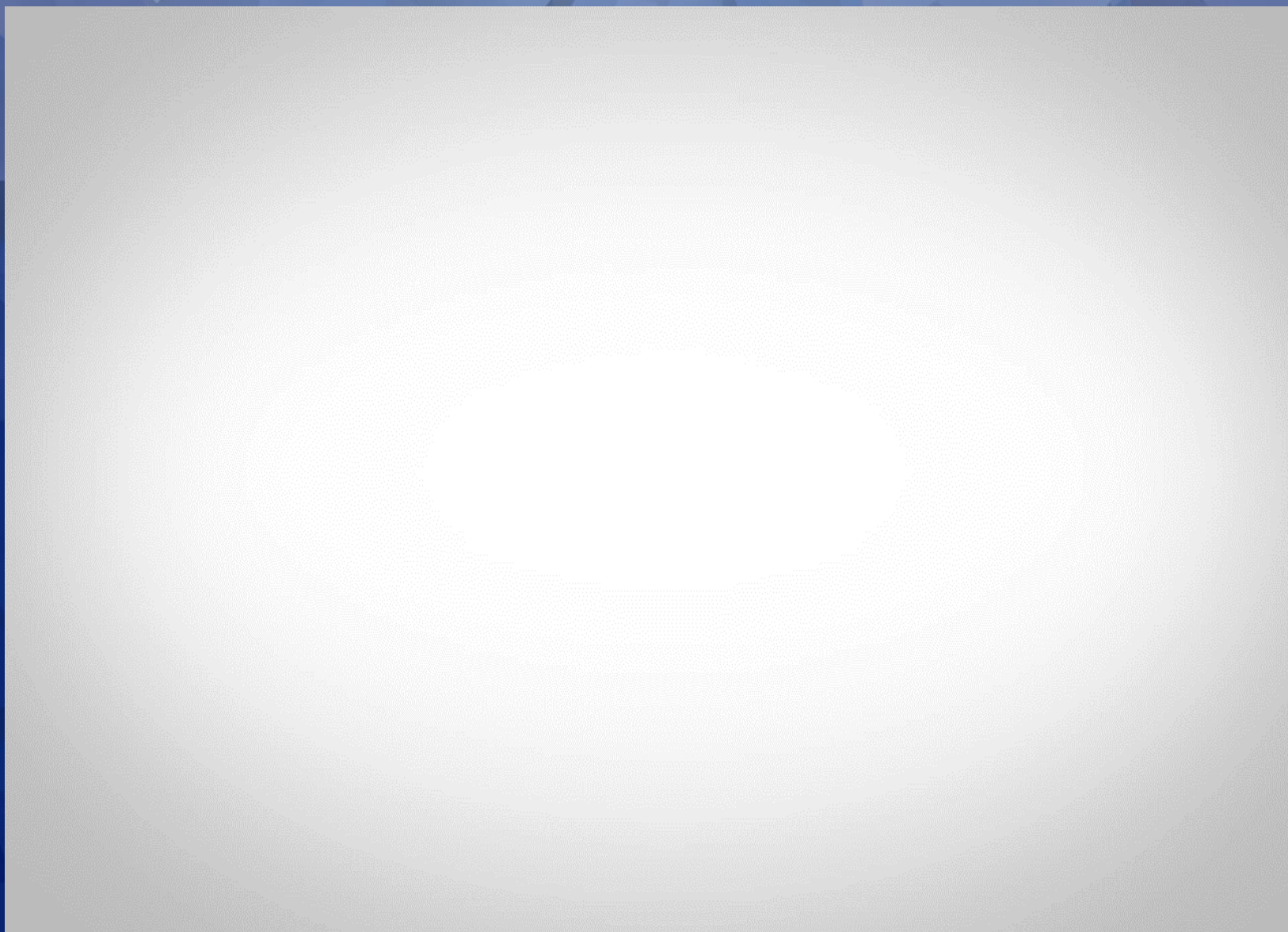
CONCLUSIONS

CONCLUSIONS

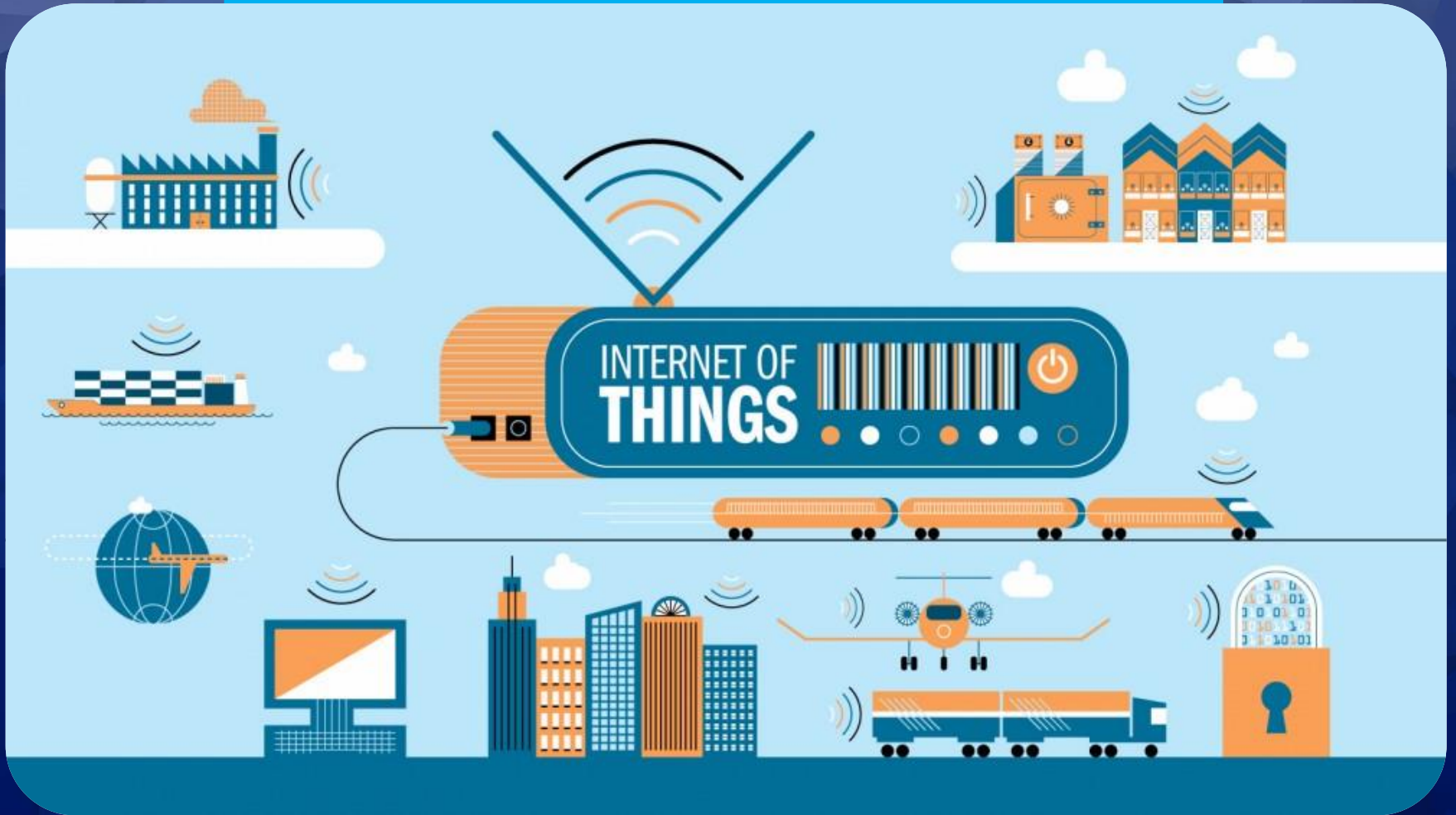


EVOLUTION OF COMMUNICATION PROCESSES



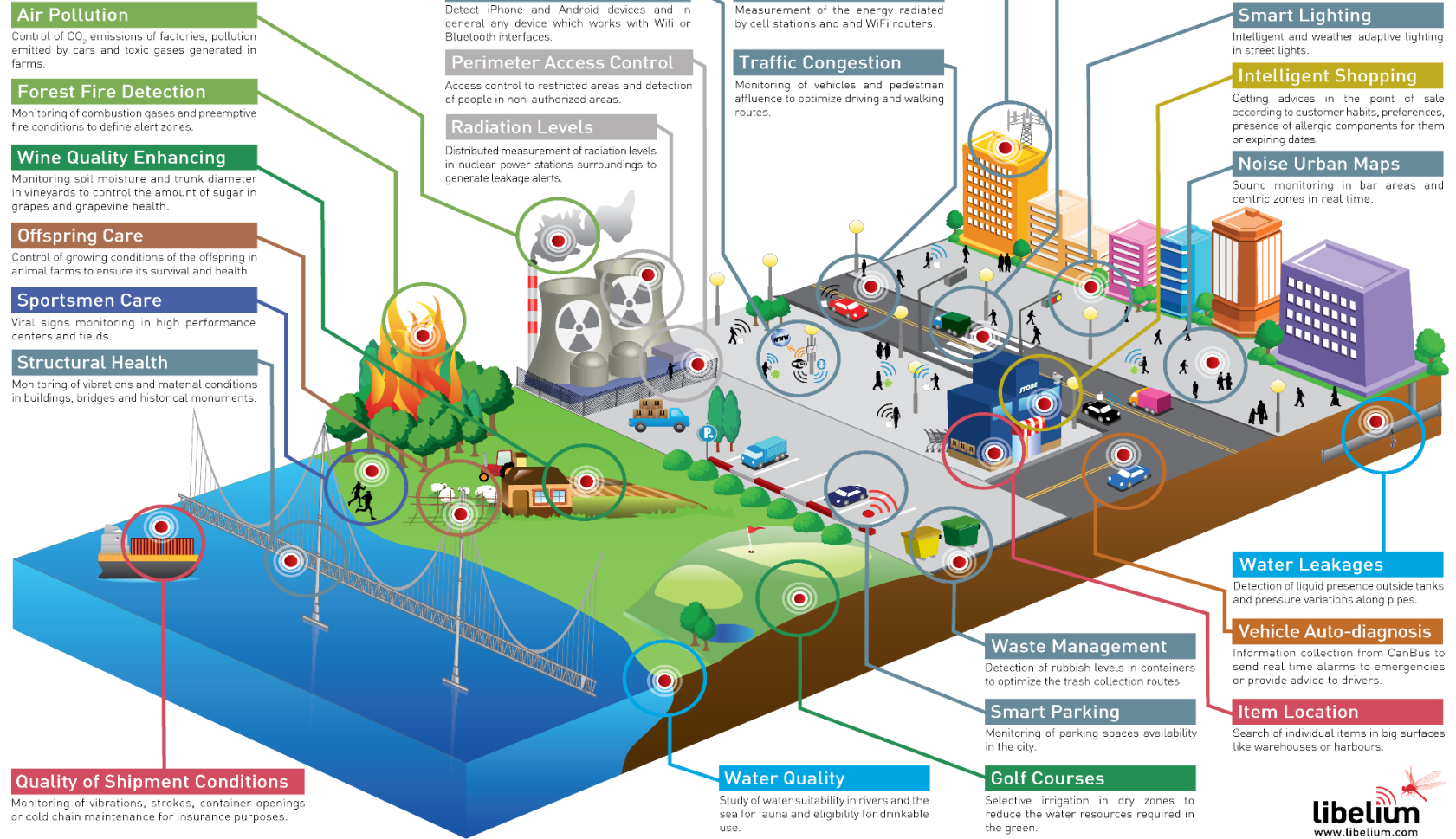


What's Next ↗



SMART NATION

Libelium Smart World



INTELLIGENT TRANSPORT SYSTEM



INTELLIGENT TRANSPORT SYSTEM



Not an evolution
of 4G,
but a full new mobile
system

Connecting
everyone



using numerous
services

Connecting
objects



dozens of billions
of very diverse
devices

Environmentally
friendly



reducing cost
and energy
consumption

Fast



dozens of times faster
than 4G

Reactive



for real time services
(connected cars,
online gaming)

5G

International
Mobile
Telecommunications
IMT-2020

CHANGING NATURE OF INFORMATION

ACCESS

LIMITED
AUDIENCES



MASS
AUDIENCES

CONVEYANCE

PHYSICAL



DIGITAL

SECURITY

UNSECURE



SECURE?

DATA SECURITY

DATA PRIVACY

**ISSUES AND
CHALLENGES**

INTER-
OPERABILITY

ALTERNATIVE
BUSINESS
MODEL

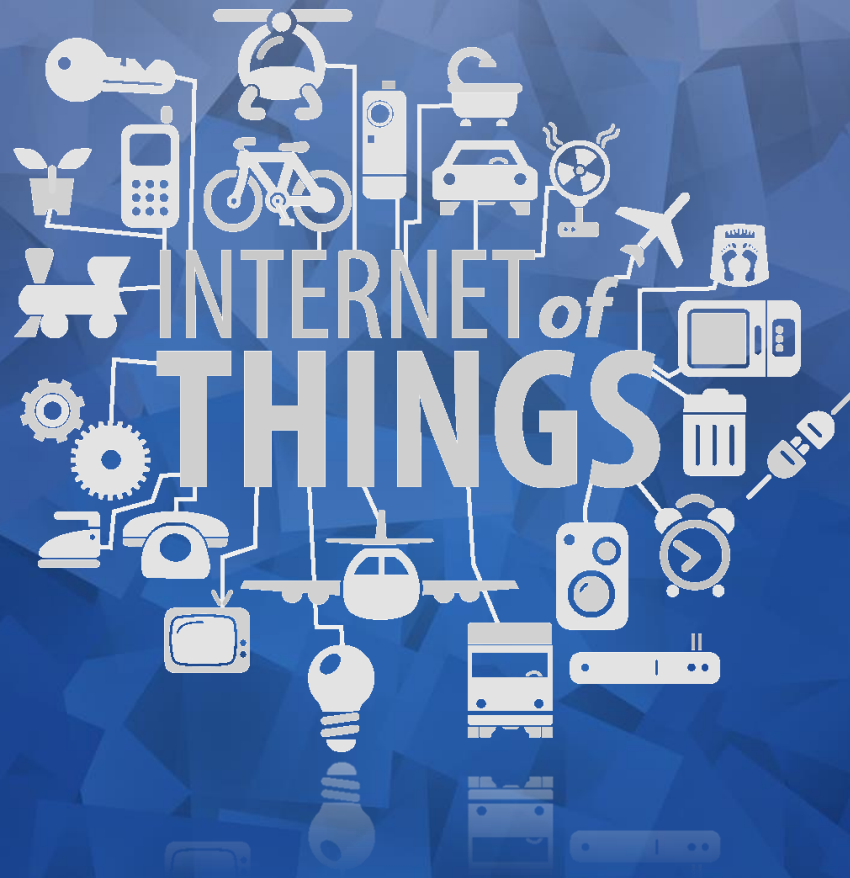


CONCLUSIONS

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Evolution of communications has brought about its own issues and challenges.



*A future where everything is connected
through M2M and IoT.*



Regulators must be aware and prepared to address issues such as data privacy, data security, standards, etc.



THANK YOU