





A background image showing a view of Earth from space, with a satellite or space station component visible in the upper right corner. The image is overlaid with a faint blue hexagonal grid pattern and several concentric white circles.

# Welcome to Topcon Group

**Ray Vallejo**

Chief Operating Officer  
Topcon Positioning Group







**Pleasanton  
Solution Center  
and Demo Site**



**Welcome to Topcon  
Livermore Campus**





87  
COMPANIES

28  
COUNTRIES

4723  
EMPLOYEES

1.5Billion  
GLOBAL  
REVENUE

## WELCOME TO TOPCON

Topcon boasts a global development,  
manufacturing and support network that  
is talent rich and interconnected.

SOKKIA

NORAC  
— TOPCON POSITIONING GROUP —

WACHENDORFF Elektronik  
— TOPCON POSITIONING GROUP —

DIGI★STAR  
— TOPCON POSITIONING GROUP —

RDS TECHNOLOGY  
— TOPCON POSITIONING GROUP —

TOPCON  
Agriculture

TIERRA  
[TELEMATICS DESIGN]

1900+  
EMPLOYEES

Largest Revenue  
Group within Topcon

600+  
ENGINEERS

90+  
PhD's

28  
GLOBAL  
LOCATIONS

# TOPCON POSITIONING GROUP

POC

- Responsible for creating and distributing all GNSS, construction automation and precision agriculture solutions,
- Specialize in unique technologies that elevate the productivity of its customers.





# Vision

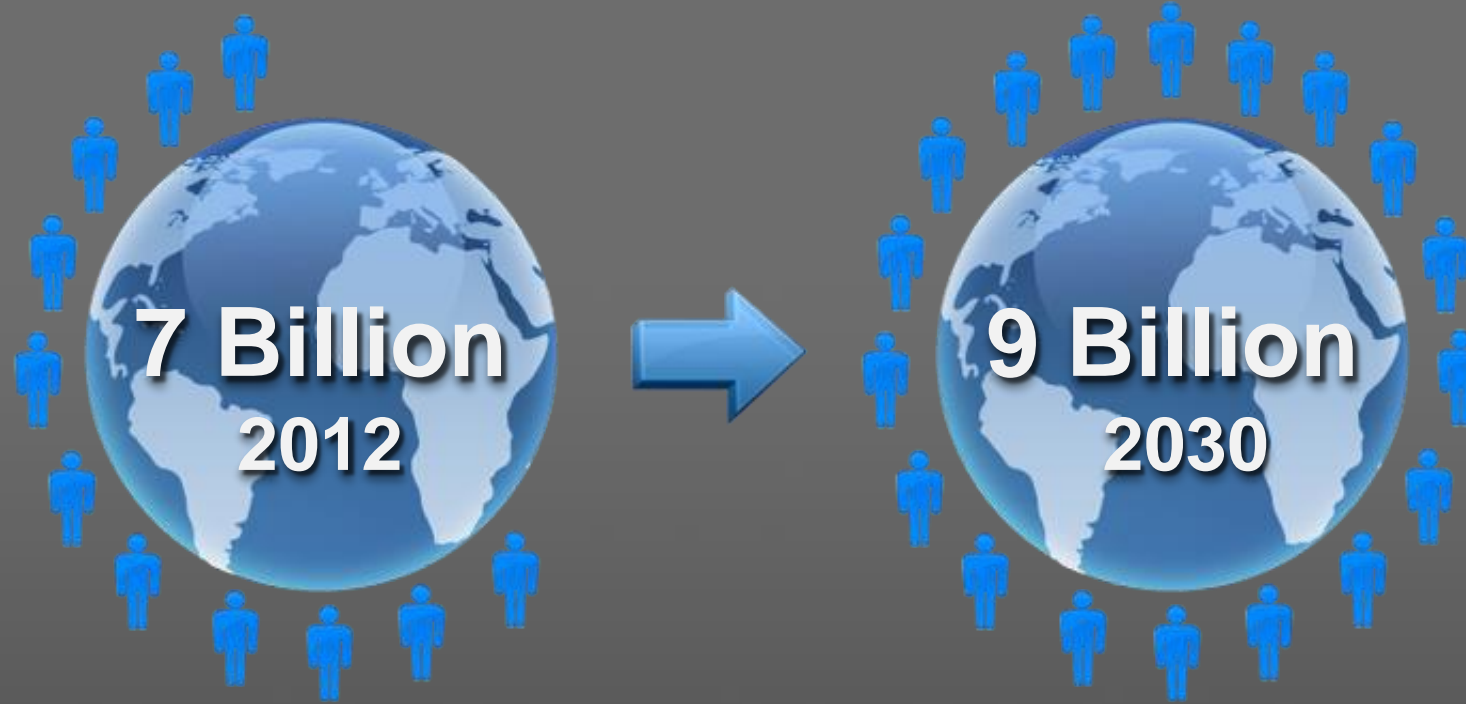
INNOVATION  
& GROWTH for  
the

PRECISE POSITIONING MARKETS



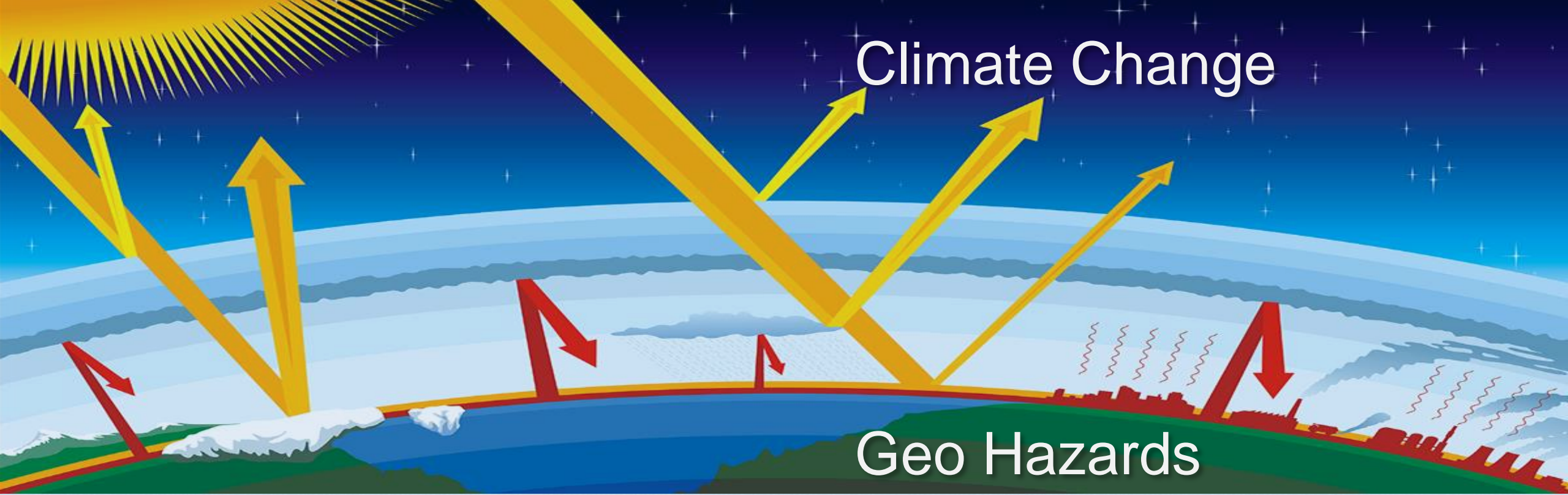
Capital Constraints  
Limited Resources  
Energy Consumption Increase  
Globalization  
Living Standards  
Increasing Demand

# GLOBAL MEGATRENDS



# GLOBAL population DRIVERS





# GLOBAL environmental DRIVERS



# Structural Monitoring Expansion & Improvement

## GLOBAL infrastructure DRIVERS

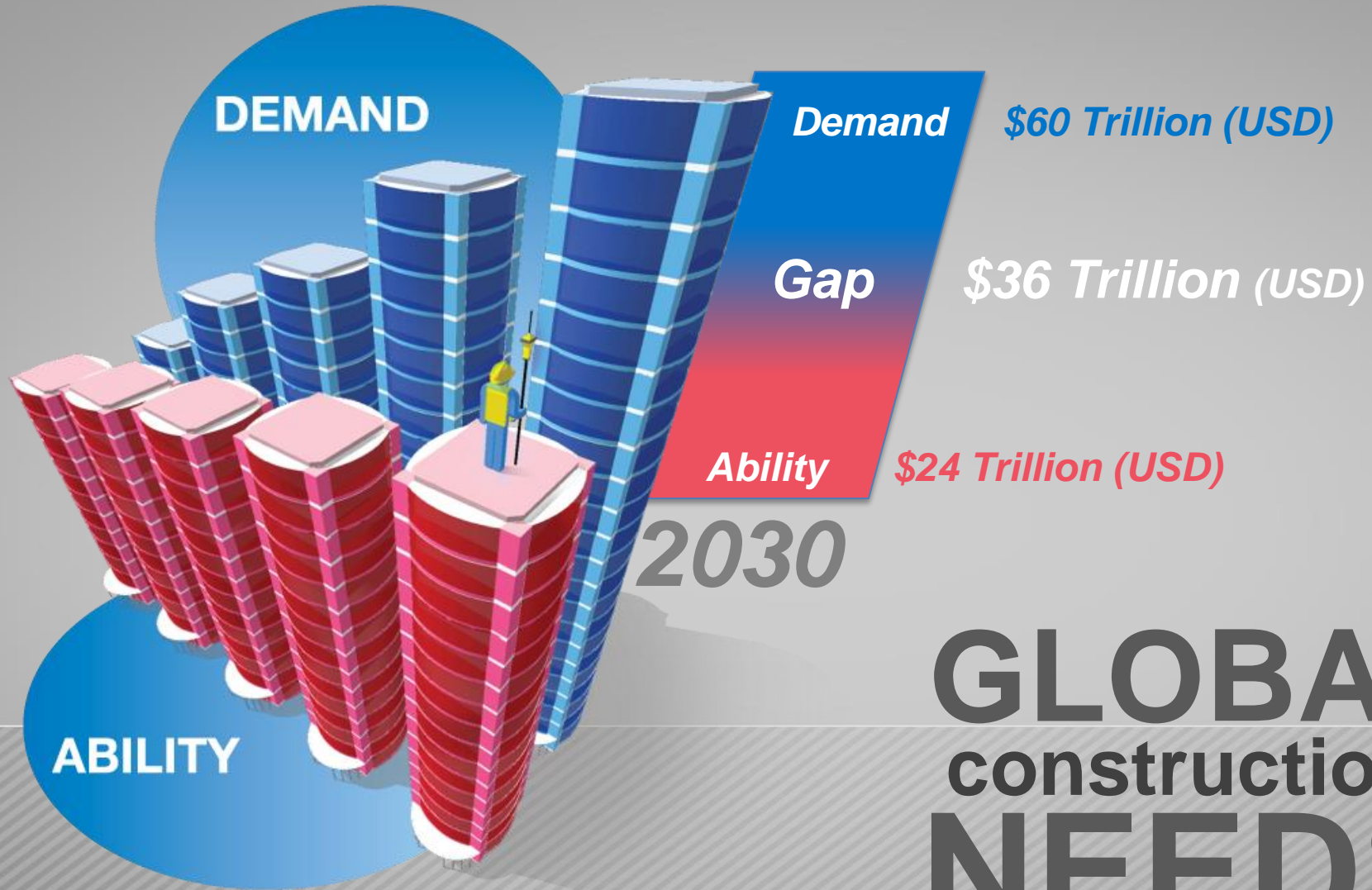




# Construction

One of the **world's largest\***  
manufacturing industries,  
and the **least automated.**  
(\$9-10T Globally)

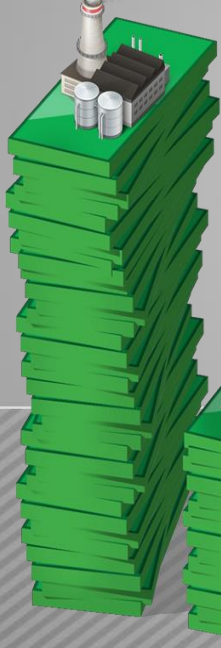
**SHAPING**  
the **EARTH**



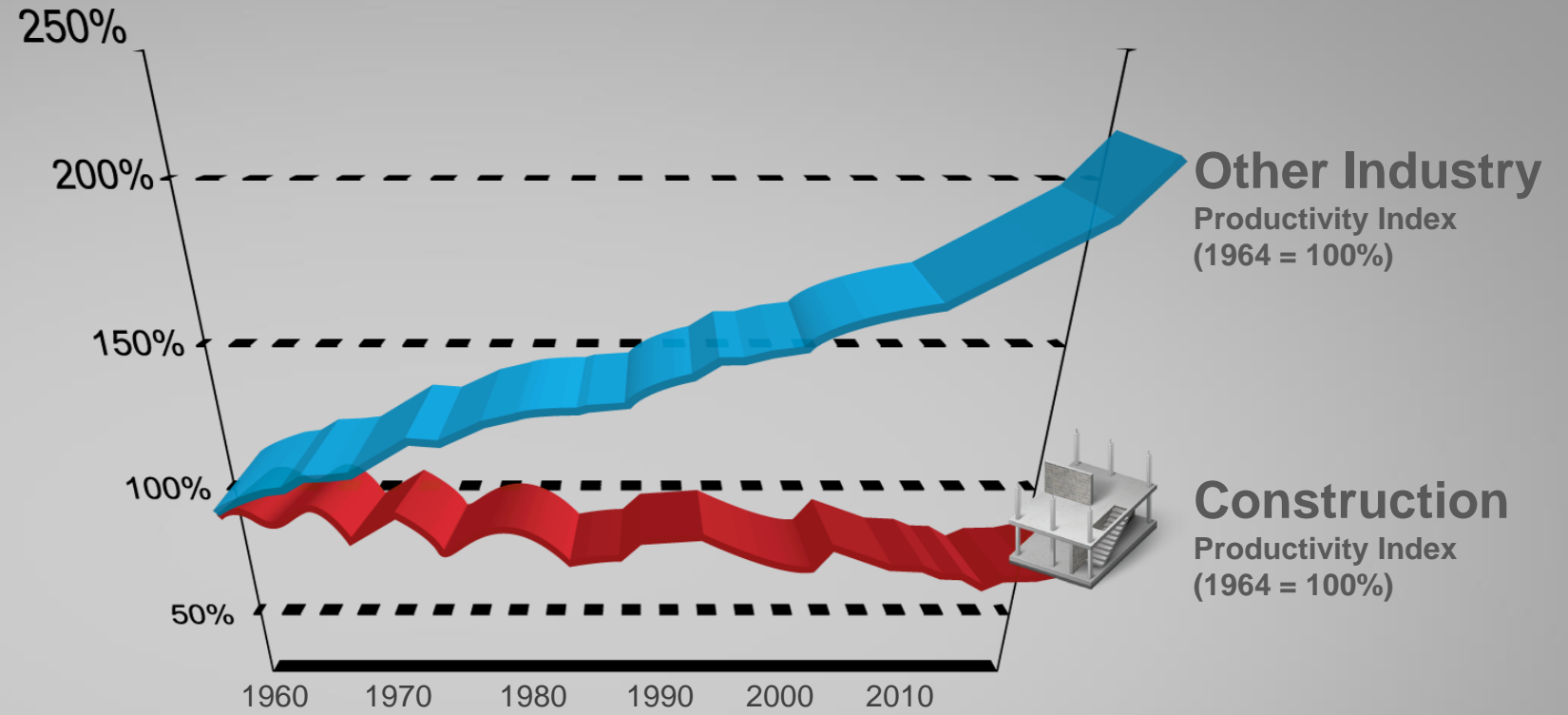
# GLOBAL construction NEEDS



Average Manufacturing Industry  
IT Spend



Construction



# PRODUCTIVITY and AUTOMATION In CONSTRUCTION

**20%** of construction expense is caused by mistakes.

Poor planning  
Wrong and excess materials  
Poor communication  
Rework

# GLOBAL WASTE REDUCTION NEEDS



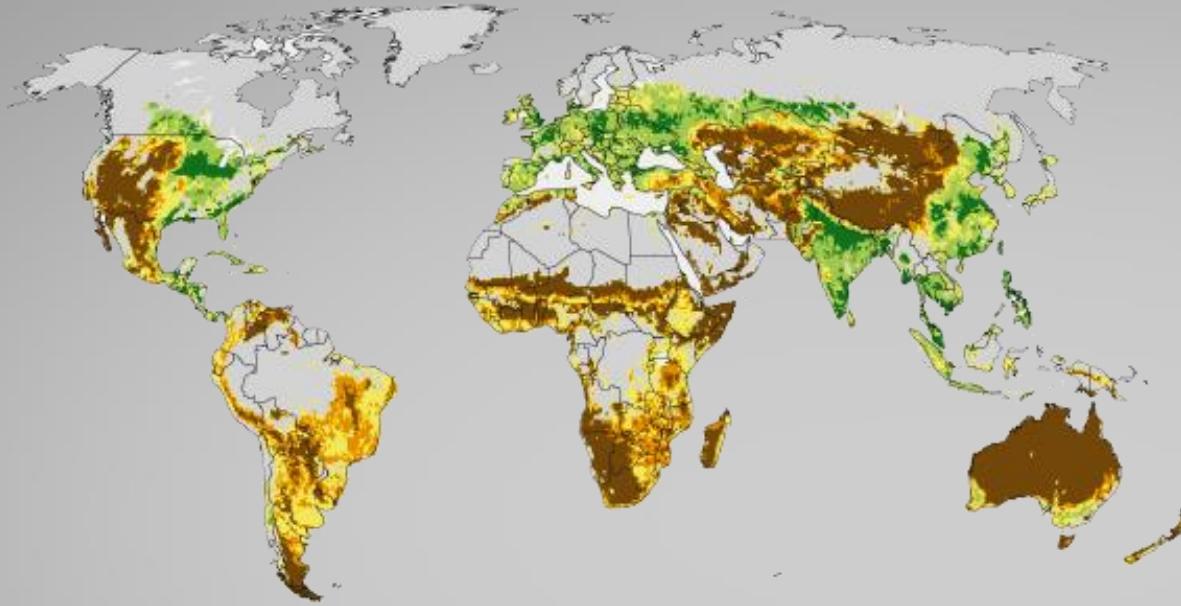




# Agriculture

One of world's largest  
manufacturing industries

**FEEDING**  
the **EARTH**



No more space to grow more

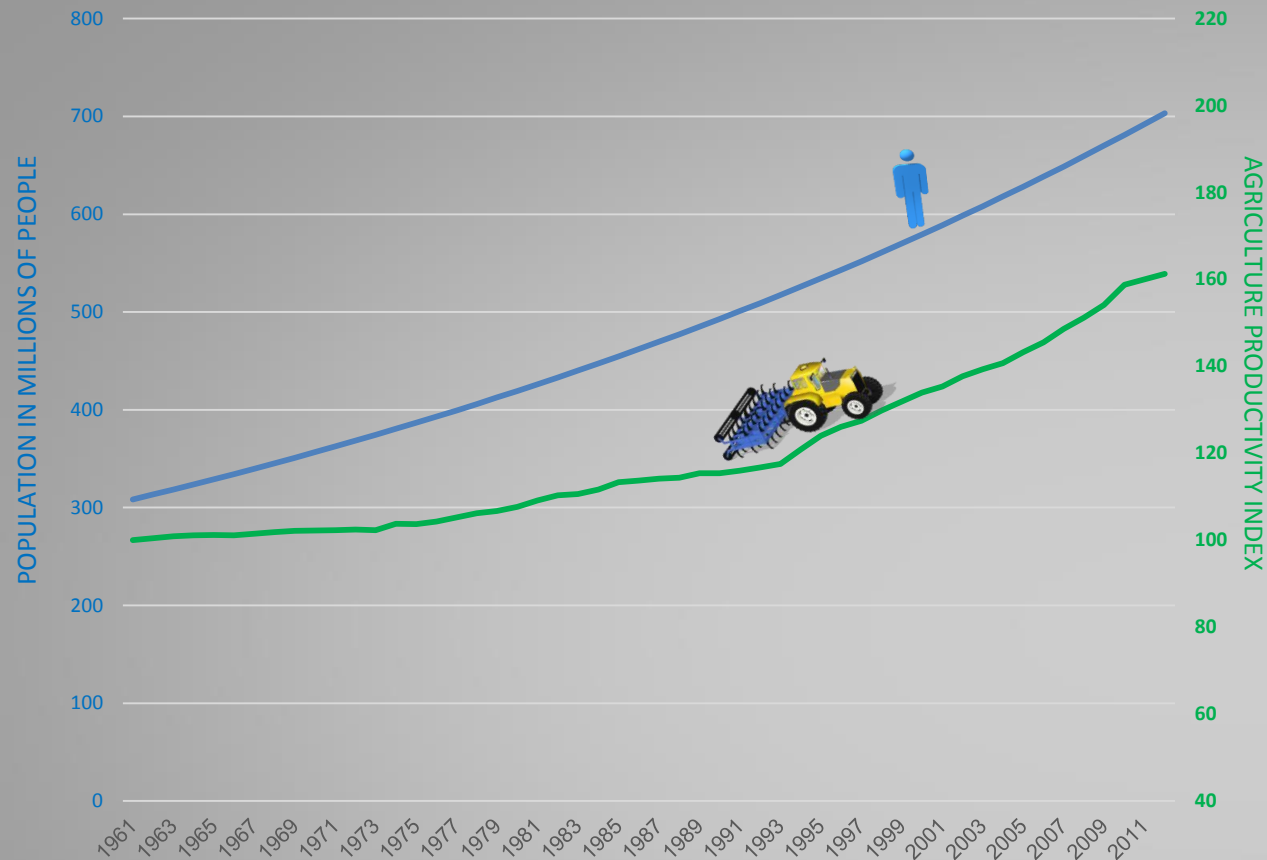
Precision Ag / GPS well accepted

30% waste in every part of food production cycle

# GLOBAL agriculture NEEDS







Over 2000 crop acres are being lost per day in North America and western Europe due to development.

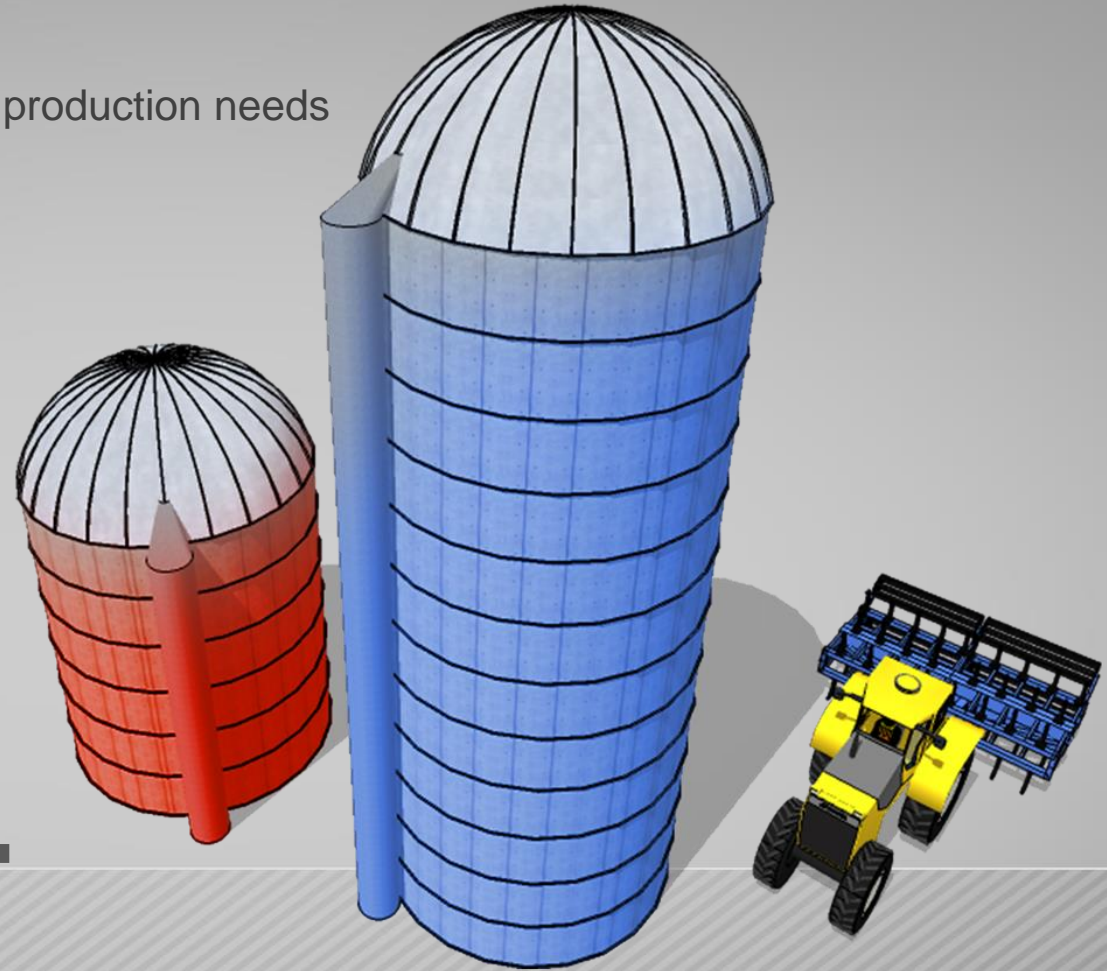
Productivity per acre must continue to increase.

# DEVELOPED ACREAGE SQUEEZE

2030 crop production needs

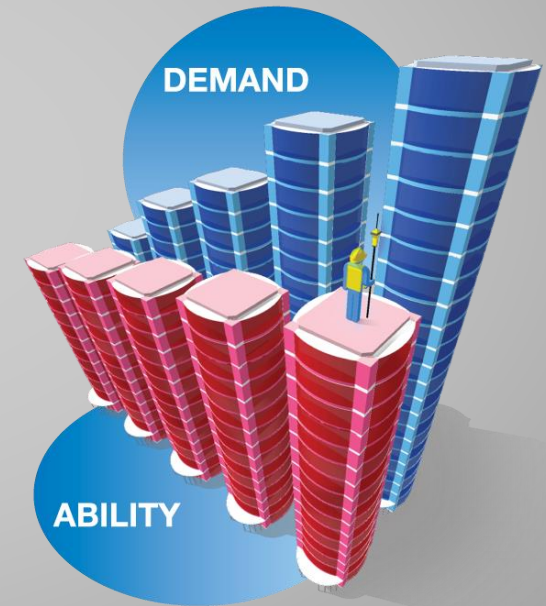
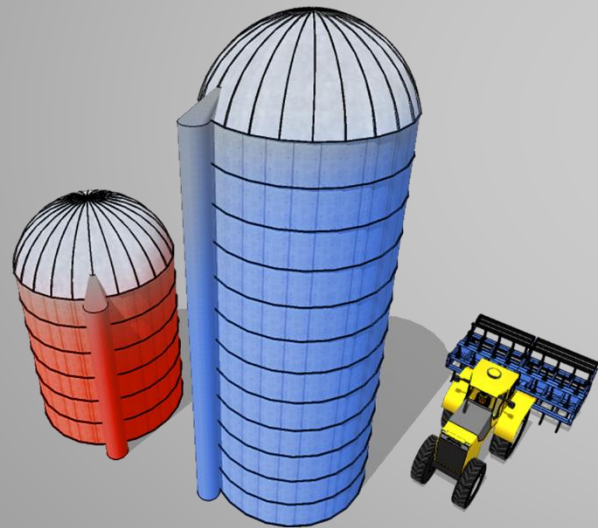
2013 crop production

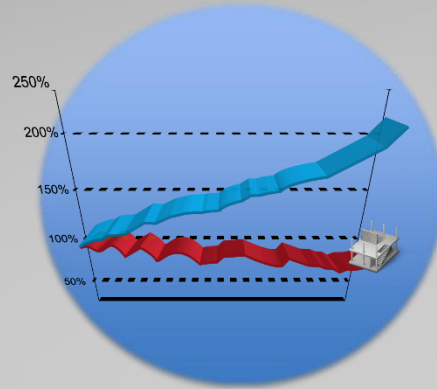
# GLOBAL agriculture NEEDS





# WE ARE IN SOME BIG MARKETS THAT NEED TO IMPROVE EFFICIENCY RAPIDLY

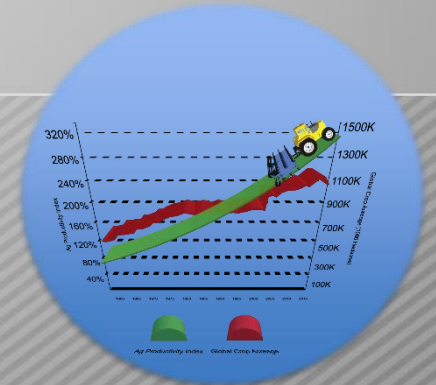
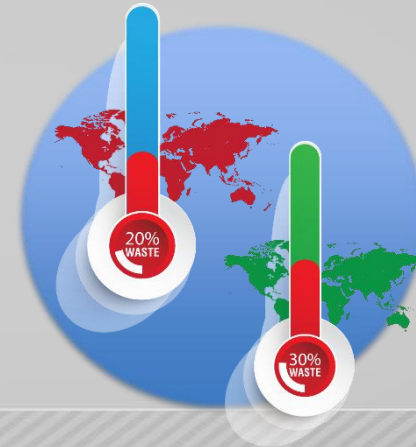




# TECHNOLOGY

to bridge the

# GAPS





# Intelligent Cities

Connected physical & social  
infrastructure

Sustainable, no waste

**INITIATIVES**  
to accelerate  
**AUTOMATION**



## Intelligent Farms

‘Farm to Fork’ traceability

Optimize yields

**INITIATIVES**  
to accelerate  
**AUTOMATION**

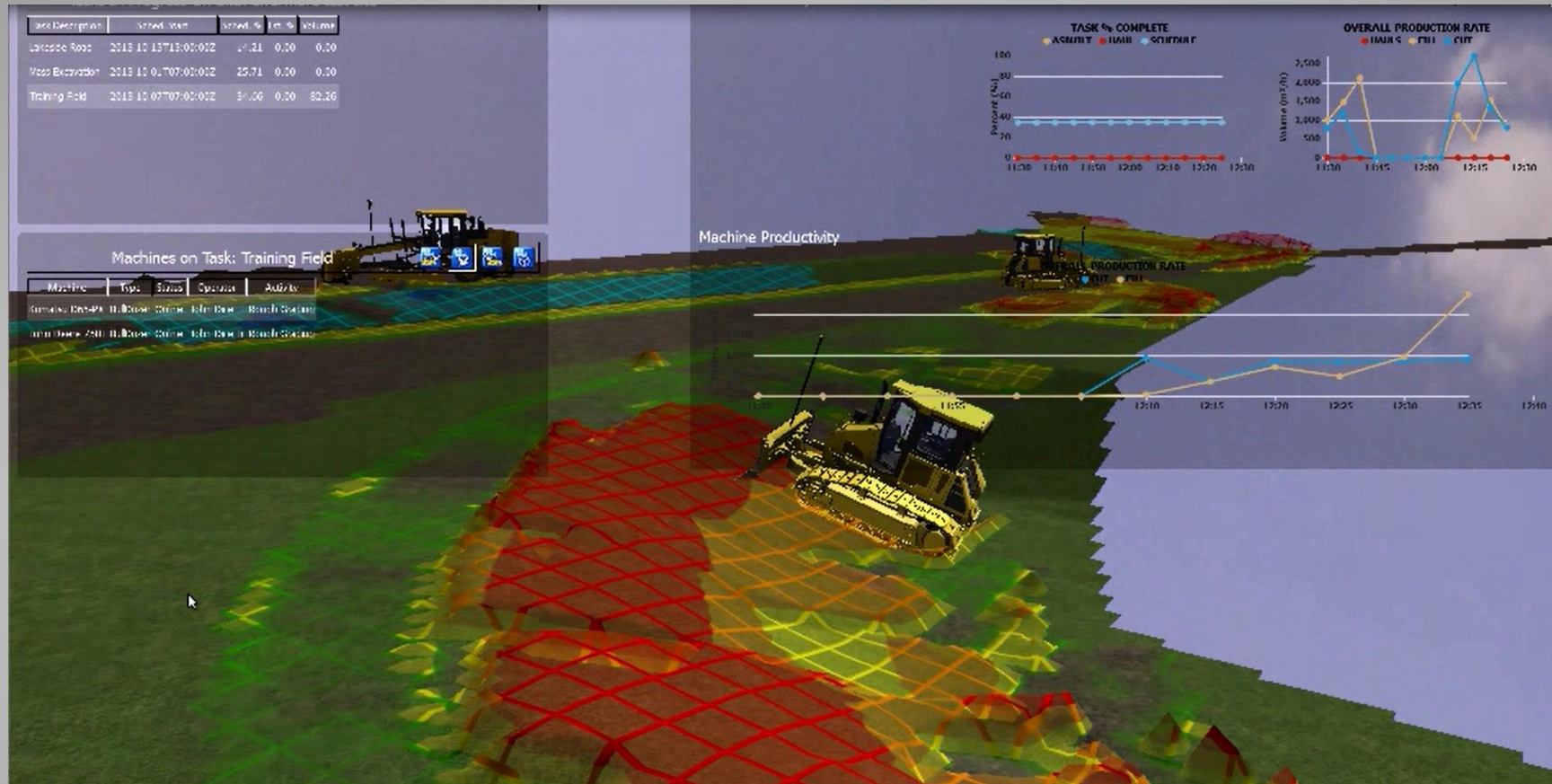




# ENTERPRISE SOLUTIONS







Construction Promotional Video clip





Bamburgh Castle – United Kingdom  
 “Continuous Representation of Reality” Video clip

All sensors can be combined to provide information to create 3D environment in (near real time)



Topcon Precision Ag Solutions Video clip

Complete precision ag solutions for a wide variety of applications.