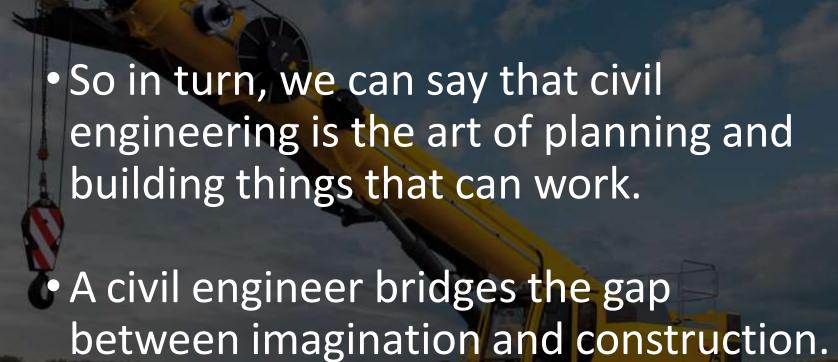




• Certainly! **Civil engineering** is a professional discipline that deals with the design, construction, and maintenance of the physical and naturally built environment. It encompasses public work such as roads, bridges, canals, dams, airports, sewage systems, pipelines, structural components of buildings and railways. In simple terms, civil engineers plan, design, oversee the construction and maintaince of various structures and facilities that serve the general public, including infrastructure like dams, highways and power plants.



He is the backbone of the civilization.





- As we can see the world is full of beautiful structures and great monuments They are all created and designed by the civil engineers.
- They improve the infrastructure around us by using great sources of power in nature to use and convience of man.

Smart Cities:

• Civil engineers are using sensors and more advanced technology to create smart and more sustainable cities and buildings.

"Enhancing Structural Integrity and Sustainability"



FLEXIBLE FOUNDATIONS



DAMPING SYSTEMS



STRUCTURAL REINFORCEMENT



VIBRATION CONTROL



MATERIAL SELECTION BY USING HIGH-STRENGTH MATERIALS



REGULAR INSPECTIONS AND MAINTENANCE



ADVANCED CONSTRUCTION TECHNIQUES



Burj Khalifa

• Location: Dubai, United Arab Emirates

Height: 828 meters (2,717 feet)

• Completion: 2010

Architect: Adrian Smith of Skidmore,

Owings & Merrill

Shanghai Tower

•Location: Luiza, Pudong,

Shanghai, China

•**Height**: 632 meters (2,073

feet)

•Floors: 128 above ground, 5

below ground

•Completion: 2015



