



What is



*Virtual Design  
and  
Construction?*



# Virtual Design and Construction

**Virtual Design and Construction** is a smart 3D model of a building that shows how everything will work before construction starts, helping builders and trades workers plan better and avoid mistakes.



# Virtual Design and Construction

**1**

Create 3D models of buildings

**2**

Design rooms, layouts, structures

**3**

Plan building/systems virtually

**4**

Coordinate trades workers

**5**

Build safer buildings

**6**

Create energy efficient buildings

**7**

Reduce carbon footprint

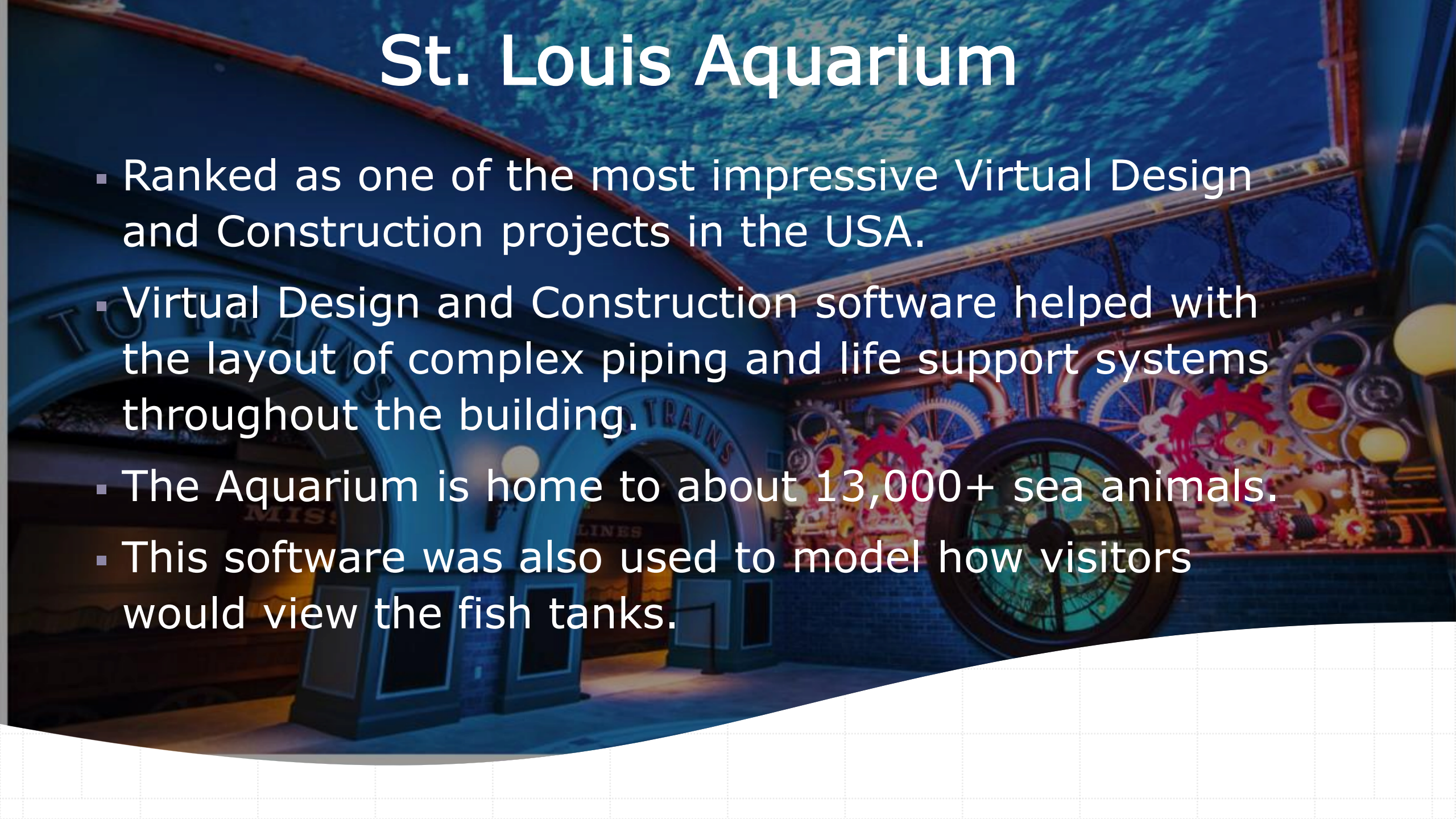
# A Virtual Design and Construction Project

Do you recognize this local facility?



# St. Louis Aquarium

- Ranked as one of the most impressive Virtual Design and Construction projects in the USA.
- Virtual Design and Construction software helped with the layout of complex piping and life support systems throughout the building.
- The Aquarium is home to about 13,000+ sea animals.
- This software was also used to model how visitors would view the fish tanks.





Is Virtual  
Design  
and  
Construction  
right for  
you?

**1**

Do you like working on computers?

**2**

Do you enjoy design?

**3**

Are you a visual learner?

**4**

Do you like to use advanced tech?

**5**

Are you a problem solver?

**6**

Are you creative?

**7**

Do you want a high-growth, in-demand career?



# What it takes to get *Virtual Design and Construction* certified

- Community colleges such as STLCC offer VDC courses.
- General contractors will offer training and certification in VDC.
- Online certificate programs are available.
- Universities offer VDC certificate courses.

**The average annual pay of a VDC specialist is \$86,000-\$105,000.**



Now it's time to  
**TEST YOUR *VIRTUAL DESIGN*  
*AND CONSTRUCTION* SKILLS!**

