



Topic:
**Composite Bike Manufacturing
Process and its future
NOTES FOR THE LECTURER**

31/03/2021

Instructions

The aim of this material is to generate curiosity and a desire to learn more about this topic, or others that may be related to advanced manufacturing.

There is one video in each picture. You must click on the pictures to open the videos.

It is recommended to watch the videos to get an idea of what will be played in class. It may not be necessary to play all the video time, that is up to the person presenting this material.



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Workshop structure

- What do you know about composite materials?
- Making a Carbon Bike Frame from Scratch!
- Future of Bike Industry and Bike Manufacturing
- Smart Bike Design Workshop (Learning by Doing)



What do you know about **Composite Materials**

Making a carbon bike frame from Scratch!





Bike Industry

Future?

Bike Industry Futur-e





Bike
Industry
Auto
Mation



Smart City-Bike Concept Design

Problem: In big cities there are a lot of bicycles thefts every day. How would you solve this problem using the new technologies available on the market?

Get together in groups of 4 people and carry out a brain-storming with new bicycle concepts that can be manufactured using new technologies such as additive manufacturing, IoT, etc...