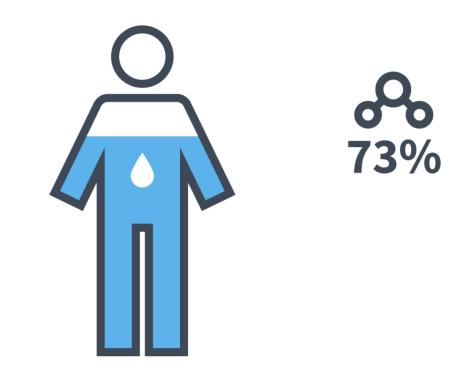
# Giordano Scappucci *Quantum Materials*

# **All Materials are Quantum**

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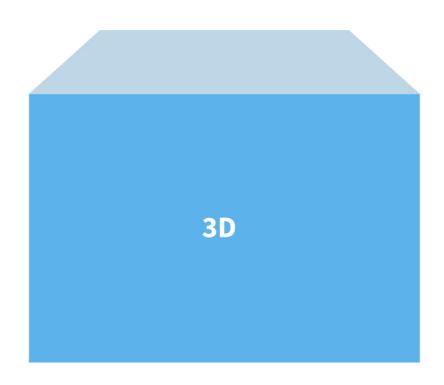
#### **All Materials are Quantum**



But often a classical description does the job



#### Quantum Materials go beyond classical understanding

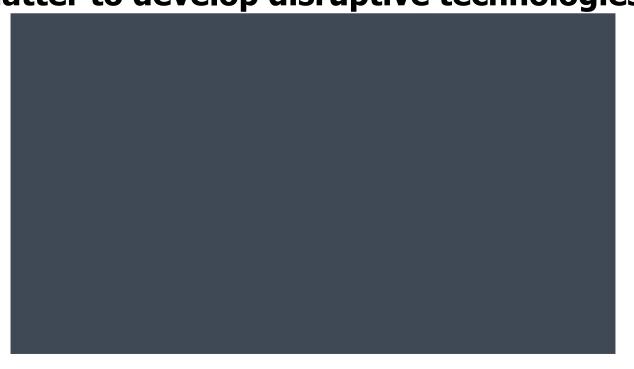


#### Quantum Materials go beyond classical understanding



#### The first quantum revolution changed our daily life

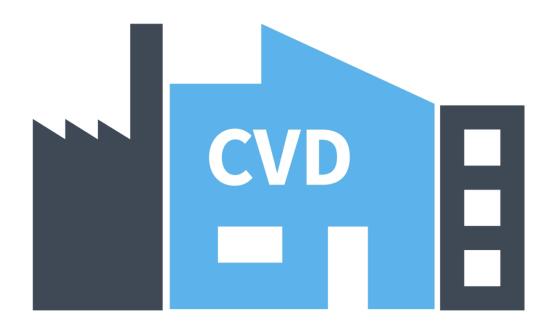
The second quantum revolution engineers quantum matter to develop disruptive technologies



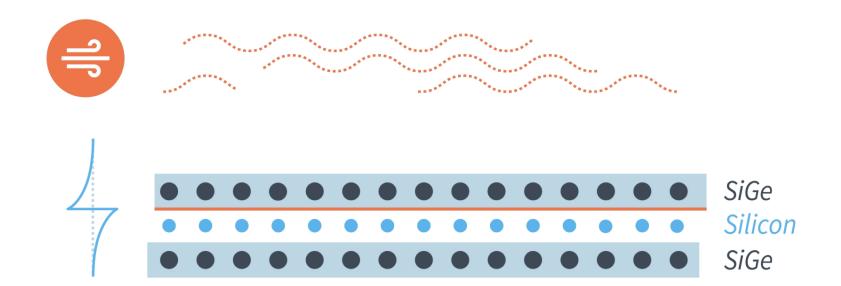
# The second quantum revolution engineers quantum matter to develop disruptive technologies

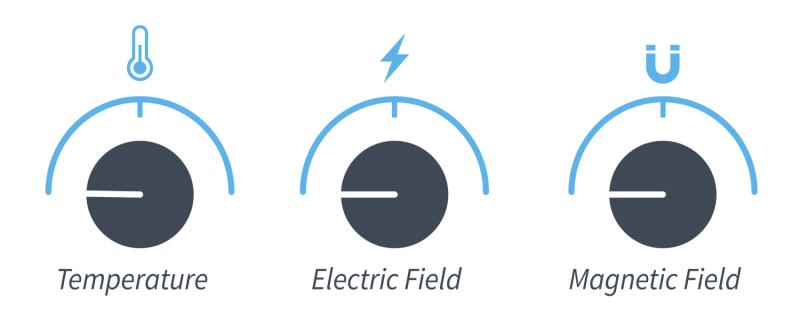
# Making of Quantum Materials

#### **Making of Quantum Materials**



We quantum engineer the physical properties of materials by using quantum confinement, strain and material composition

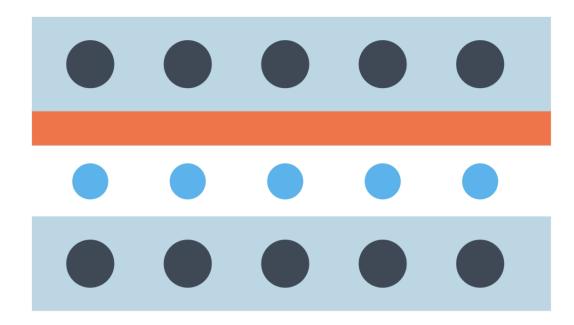








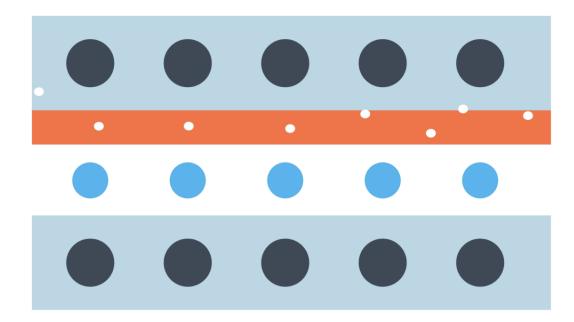












# Ultimately, quantum materials will be simulated by quantum computers

