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## 2D

Layered materials hold enormous promise for enabling new device concepts and novel applications, owing to their planar nature and their exquisite, tuneable properties.

The core concept of this proposal is the development of a novel nano-manufacturing technology based on laser transfer techniques, which will enable the rapid, intact transfer and engineering of 2D stacks and heterostructures for optoelectronic, photonic and organic electronic devices. To achieve this, we will benefit from the unique advantages of the Laser Induced Backward Transfer (LIBT) and Laser Induced Forward Transfer (LIFT) techniques, which among other attributes, offer the capability for intact transfer of any 2D LM with high lateral resolution (micron scale), the transfer of 2D heterostructures and compatibility with a variety of substrates, including Si and flexible substrates.

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