















## MANCHESTER

## • Volatility What makes for a good precursor?

- Clean decomposition
- Stability under delivery conditions
- Compatibility with other precursors
- Freedom from adventitious impurities

## **Conventional route**

• Highly toxic and/or oxygen or moisture sensitive gases e.g. H<sub>2</sub>S, H<sub>2</sub>Se, NH<sub>3</sub>, PH<sub>3</sub>, AsH<sub>3</sub>, SiH<sub>4</sub> etc. • Environment and safety conditions: particularly important for industrial processes.

Combining the strengths of UMIST and The Victoria University of Manchester





































































