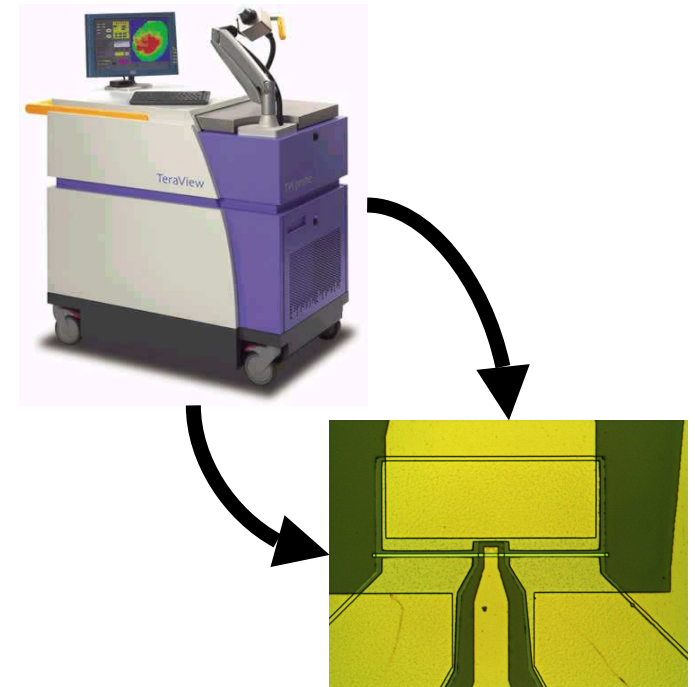


# Planar Gunn Technology

- **Joint project:** Aberdeen & Glasgow Universities with Industrial Collaborator (e2v)
- Improve upon traditional 'vertical' **Gunn diodes**
  - compact semiconductor oscillators (low phase noise)
  - typically mW of power at up to 90 GHz
- What do we mean by **planar** ?
  - promote current parallel to semiconductor epilayers
- Concept **patented in 2006**

# Planar Gunn Technology

- Traditional Gunn diode benefits **PLUS:**
  - Low integration costs
  - One wafer = many devices
  - Scalability to THz regime predicted



**Our Product:** Compact semiconductor source(s) of THz radiation