

UK Satellite Manufacturing Supply Chain (Future)



- Tiers 1, 2 & 3**
- AAC Clyde Space
 - Airbus Defence & Space
 - Alba Orbital
 - Ambasat
 - Astroscale
 - BAE Systems
 - Clearspace
 - Exobotics
 - Lockheed Martin
 - MDA Space
 - NanoAvionics
 - Open Cosmos
 - Orbital Astronautics
 - SSTL

Tier 1: The Satellite

20
Companies

OEM/prime/systems integrators producing finished spacecraft

Tier 2: Subsystems

40+
Companies

Companies combining assemblies into subsystems

Tier 3: Assemblies

50+
Companies

Companies combining components and parts with a specific function

- Tiers 1 & 2**
- AVS
 - Craft Prospect
 - NewOrbit Space
 - Space Forge
 - Spire Global
 - Third Planet Orbital

- Tiers 2 & 3**
- Benchmark Space Systems
 - Boyd
 - Filtronic
 - Honeywell Aerospace
 - JCR Systems
 - Lift Me Off
 - MDA Space
 - Nammo
 - Ohm Space
 - QinetiQ
 - RAL Space
 - Raytheon UK
 - SatixFy
 - Spacechips
 - Space Resources Laboratory
 - STAR-Dundee
 - Teledyne
 - Thales Alenia Space
 - URA Thrusters

- Tier 1 only**
- Infinity Space

- Tier 2 only**
- | | |
|----------------------|---------------------------|
| Airborne Engineering | Pulsar Fusion |
| Cesium Astro | Protolaunch |
| D-Orbit | Second Star |
| Lacuna Space | Super-Sharp Space Systems |
| LIA Aerospace | Tekever |
| Lime Microsystems | |
| Magdrive | |
| Magellan Aerospace | |

- Tier 3 only**
- | | |
|------------------------------|------------------------|
| ABSL Power Solutions | Orbit Fab |
| Advanced Integrated Tech Ltd | Oxford Space Systems |
| Andor | Plextek |
| AST SpaceMobile UK | Plexus |
| Atout Process | Qioptiq Space Tech |
| aXenic | Reliasat |
| Beck Optronic Solutions | Rolatube |
| Concurrent Technologies | Space DOTS |
| Glenair | SteamJet Space Systems |
| HiETA Technologies | Terma |
| Metahelios | TK Instruments |
| MVP Aerospace | Veoware |
| NewSpace Systems | XCAM |

Tier 4 Components & Parts

100s
Companies

Examples:

- Actuators
- Composites
- Engine injectors
- Valves

Tier 5 Hardware & Materials

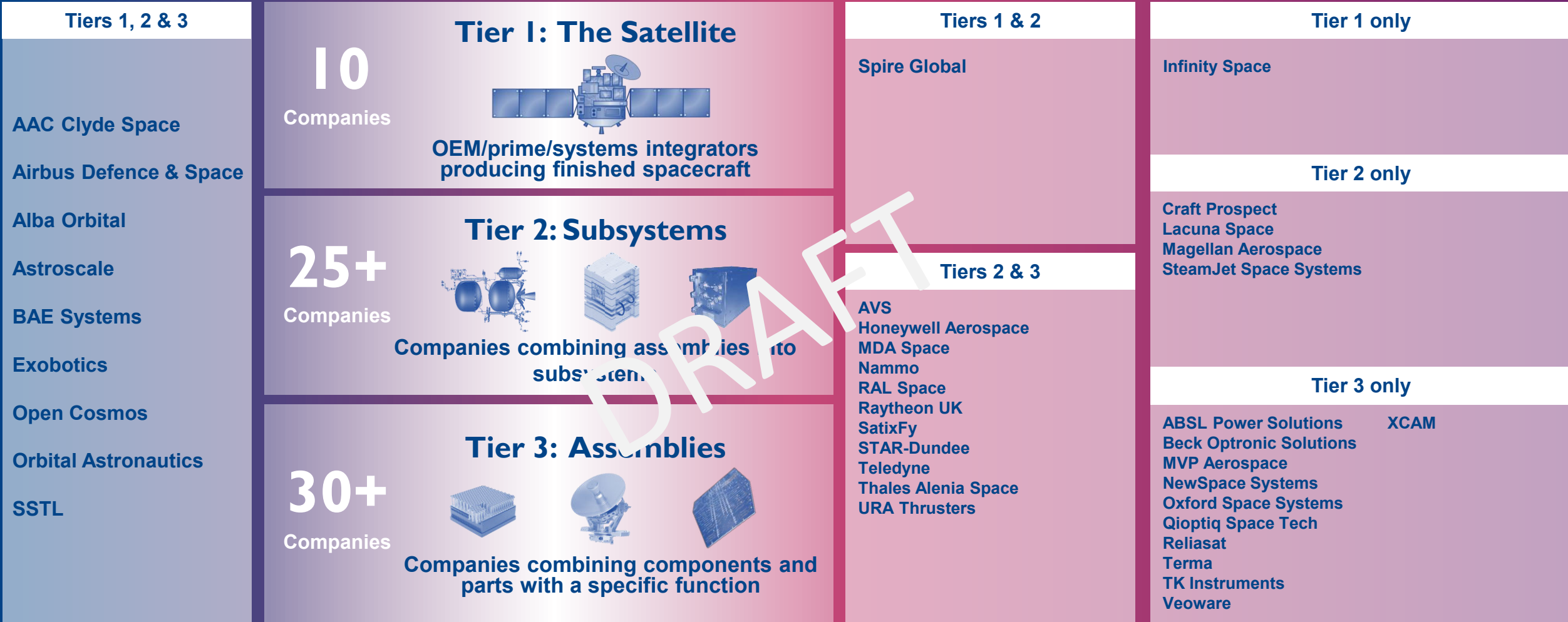
100s
Companies

Examples:

- Adhesives
- Ball bearings
- Liquids/gases
- Screws

>50 universities building satellites or developing the skills base

UK Satellite Manufacturing Supply Chain (Today)



Tier 4 Components & Parts

100s Companies

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Tier 5 Hardware & Materials

100s Companies

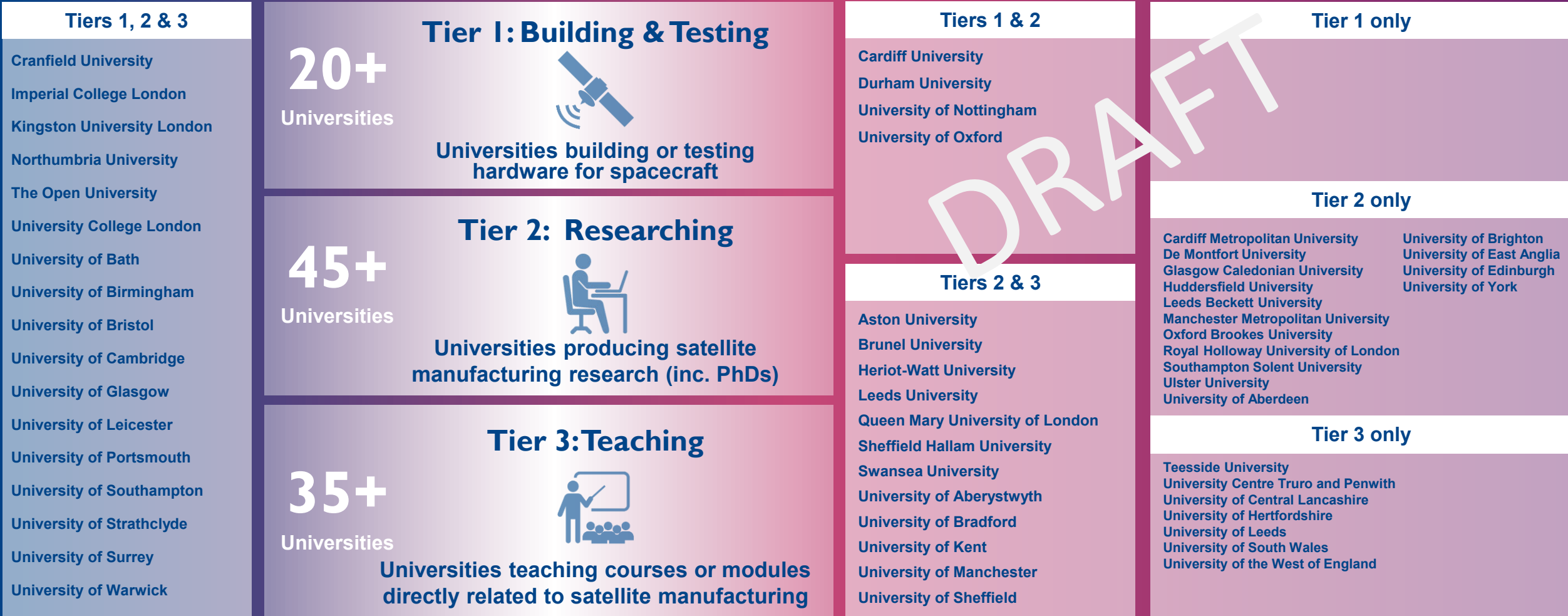
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137 satellites produced in the UK from 2020-24, 74% were exported

Ref: Resonance

UK Satellite Manufacturing Academic Landscape



DRAFT

54 out of 165 universities directly support satellite manufacturing in the UK

- Many other universities:**
- Host facilities that could be used for satellite test and integration
 - Research space-related topics
 - Teach space-relevant courses

Universities are supported by:



SPACE ACADEMIC NETWORK



Space Universities Network
Supporting the Space Higher Education Community