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## MOS Projects Around the World

MOS with multiplex > 300

| Project                       | Hemisphere | Tel. diam.<br>(m) | FOV<br>(sq deg) | Fibres / slits | Spectroscopic<br>resolution | First light |
|-------------------------------|------------|-------------------|-----------------|----------------|-----------------------------|-------------|
| <a href="#">AAT / AAOmega</a> | S          | 3.9               | 3.14            | 392 fibres     | 1300 - 8000                 | 2006        |
| <a href="#">AAT / Hermes</a>  | S          | 3.9               | 3.14            | 392 fibres     | 28000                       | 2012        |
| <a href="#">GMT / GMACS</a>   | N          | 21.9              | 0.05            | 400 fibres     | 1500-5000                   | 2025?       |
| <a href="#">GTC / GO-IRS</a>  | N          | 10.4              | 0.05            | 1000 fibres    | 2000 - 20000                | Proposed    |
| <a href="#">HET / VIRUS</a>   | N          | 10                | 0.09            | 150 IFUs       | 500                         | 2016        |

|                  |   |     |      |                |               |          |
|------------------|---|-----|------|----------------|---------------|----------|
| LAMOST           | N | 4.0 | 19.6 | 4000 fibres    | 1000, 10000   | 2009?    |
| Mayall / BigBOSS | N | 3.8 | 7.07 | 5000 fibres    | 5000          | 2020     |
| MMT / Hectospec  | N | 6.5 | 0.79 | 300 fibres     | 1000          | 2003     |
| CFHT / MSE       | N | 10  | 1.5  | 3200 fibres    | 2000 - 20,000 | Proposed |
| VISTA / 4MOST    | S | 3.7 | 4    | 2400 fibres    | 2400          | 2023?    |
| SDSS-III / BOSS  | N | 2.5 | 7.07 | 1000 fibres    | 1600 - 2700   | 2009     |
| Subaru / PFS     | N | 8.2 | 1.78 | 2400 fibres    | 2000 - 5000   | 2021?    |
| Subaru / FMOS    | N | 8.2 | 0.2  | 400 fibres     | 600/3000      | 2011     |
| VLT / MOONS      | S | 8.2 | 0.14 | 500+500 fibres | 4000 - 20000  | 2022?    |
| WHT / WEAVE      | N | 4.2 | 3.14 | 1000 fibres    | 5000, 20000   | 2021     |

#### MOS with multiplex 100 - 300

| Project                | Hemisphere | Tel. diam. (m) | FOV (sq deg) | Fibres / slits    | Spectroscopic resolution | First light |
|------------------------|------------|----------------|--------------|-------------------|--------------------------|-------------|
| Blanco, Mayall / HYDRA | S          | 4.0            | 0.3          | ~138              | 5000                     | 1998        |
| E-ELT / MOSAIC         | S          | 39             | 0.01         | 300               | 5000 - 20000             | 2032?       |
| GEMINI / GMOS          | N/S        | 8.1            | 0.007        | 100s slits        | 4000 - 9000              | 2001/3      |
| HET / HETDEX           | N          | 9              | 0.108        | 145 fibre bundles | 1000                     | 2015        |
| Keck / Deimos          | N          | 9.8            | 0.08         | ~ 100 slitlets    | 5000                     | 2002        |
| VLT / FLAMES           | S          | 8.2            | 0.126        | 130 fibres        | 5000 - 30000             | 2003        |
| VLT / VIMOS            | S          | 8.2            | 0.063        | 200 - 800 slits   | 200 - 2500               | 2003        |
| WHT / AF2              | N          | 4.2            | 0.785        | 150 fibres        | 100 - 9500               | 1994        |
| WIYN / HydraW          | N          | 3.5            | 0.78         | 100 fibres        | 1000 - 10000             | 1994        |

#### MOS with multiplex < 100

| Project        | Hemisphere | Tel. diam. (m) | FOV (sq deg) | Fibres / slits    | Spectroscopic resolution | First light |
|----------------|------------|----------------|--------------|-------------------|--------------------------|-------------|
| CAHA / MOSCA   | N          | 3.5            | 0.04         | ? slits           | ~3000                    | 1996        |
| GMT / NIRMOS   | N          | 21.5           | 0.010        | 50 slits          | 3000                     | 2025?       |
| GTC / EMIR     | N          | 10.4           | 0.007        | 50 slits          | 4000                     | 2016        |
| GTC / MEGARA   | N          | 10.4           | 0.0034       | 100 fibre bundles | 5000 - 19000             | 2017        |
| GTC / OSIRIS   | N          | 10.4           | 0.012        | 30 slits          | 250 - 3000               | 2013        |
| LBT / LUCI     | N          | 2x8.4          | 0.004        | Up to 33 masks    | ~2000--8500              | 2008        |
| Keck / MOSFIRE | N          | 9.8            | 0.010        | 46 slits          | ~3600                    | 2011        |
| VLT / FORS     | S          | 8.2            | 0.013        | 19 slits          | 260 - 2600               | 1999        |
| VLT / KMOS     | S          | 8.2            | 0.011        | 24 IFUs           | ~3000-4000               | 2012        |
| WHT / LIRIS    | N          | 4.2            | 0.005        | 25 slits          | 700 - 2500               | 2005        |