ALIBUILD STATUS

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NEW RELEASES SINCE LAST OFFLINE WEEK
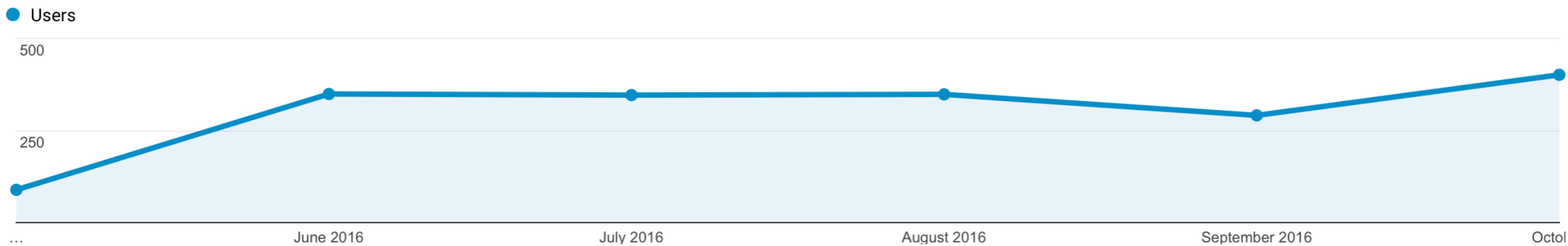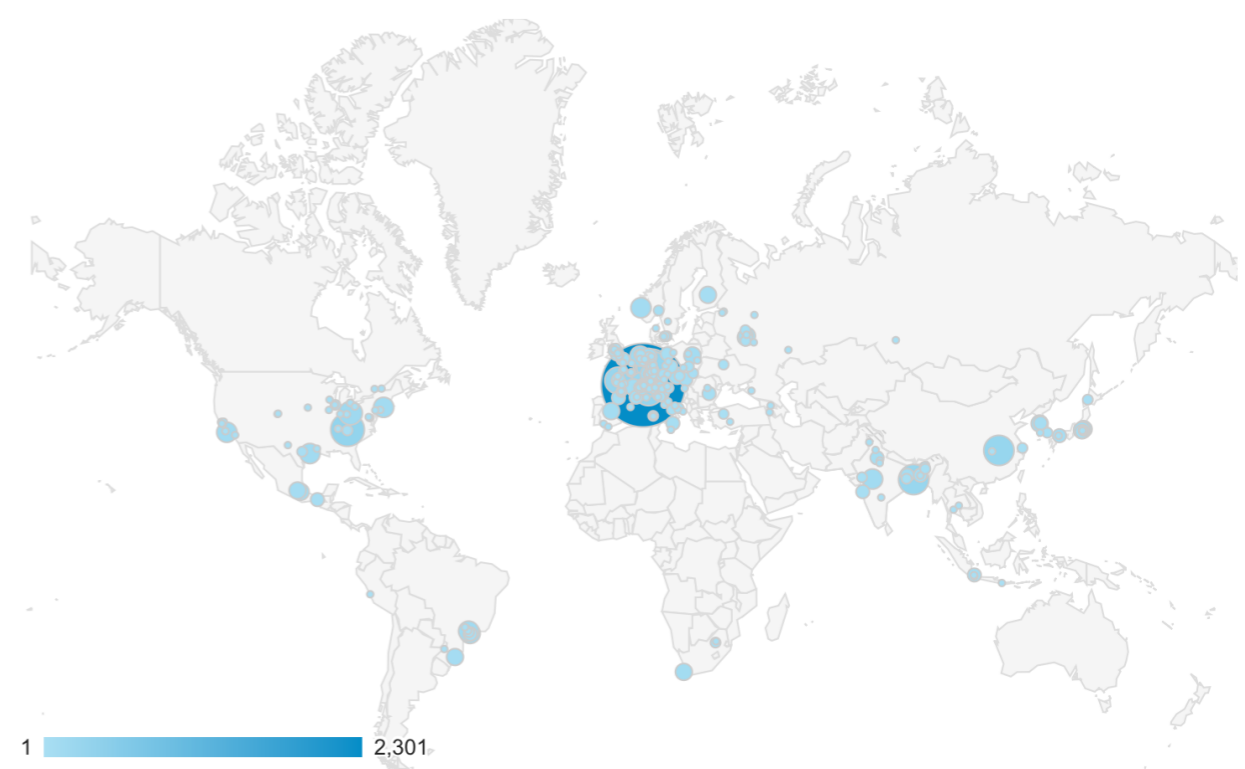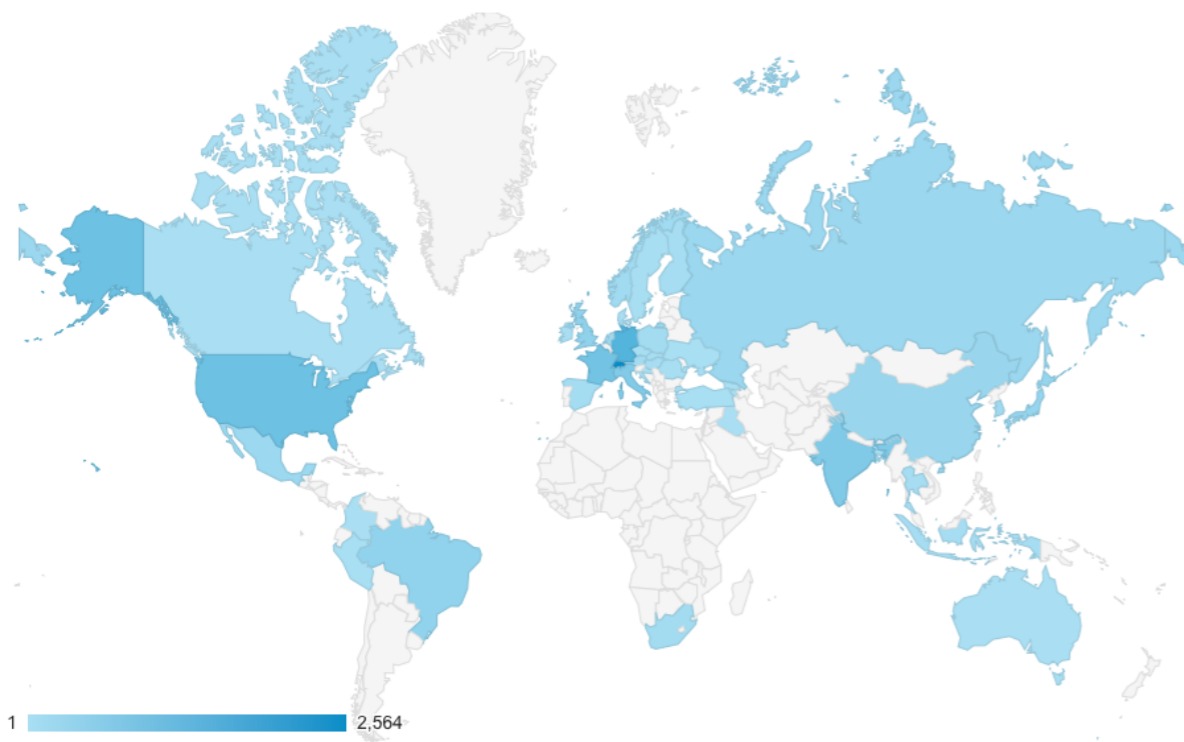
v1.3.x (Jun 3rd)

➤ *(Opt in) Usage statistics*

➤ *Enhanced "aliDoctor", "aliBuild clean", "aliBuild version"*

➤ *Improved documentation*

v1.4.x (Nov 2nd)

➤ *Support for Python 3*

➤ *Enhanced "defaults" support (see later)*
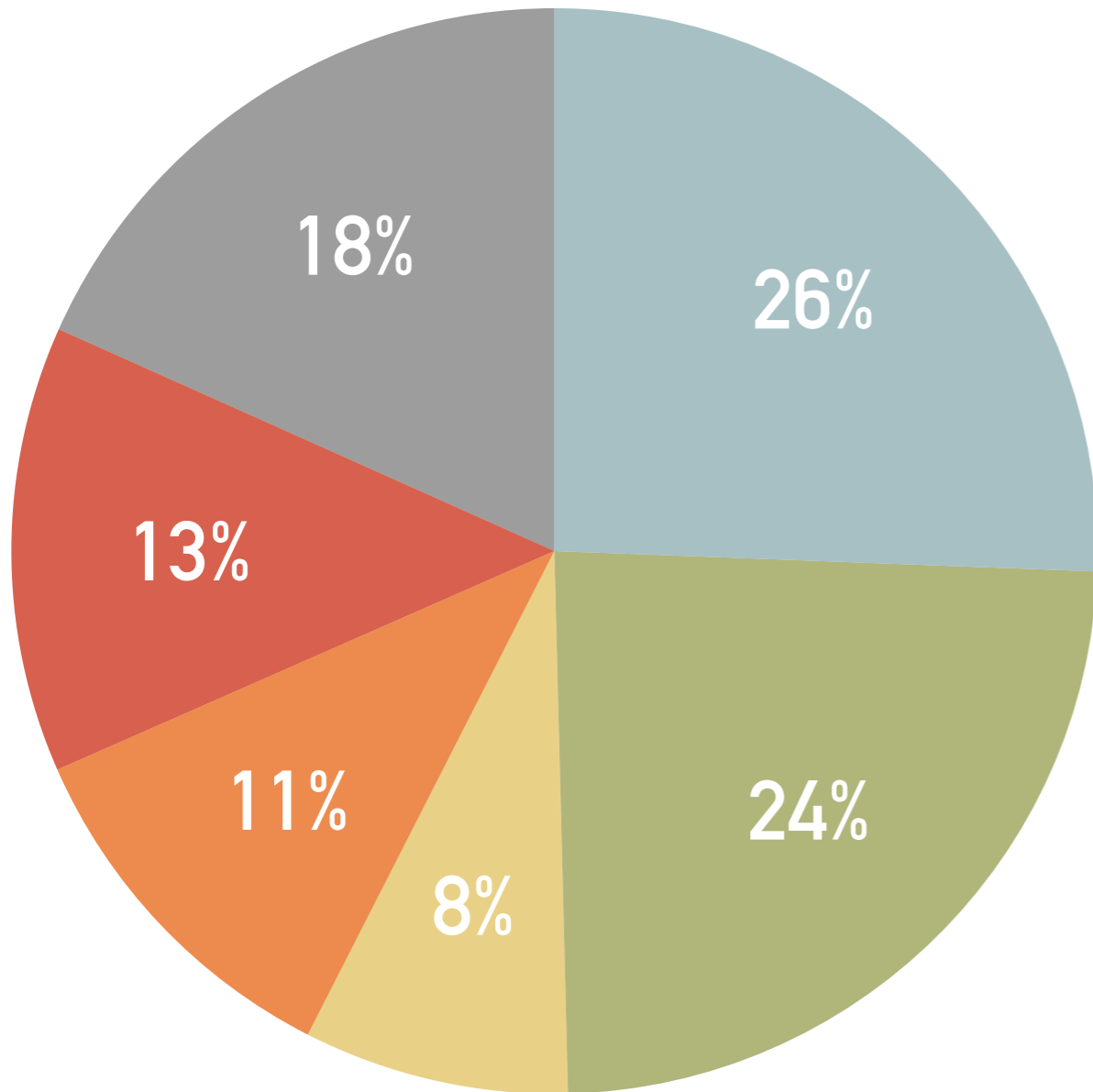
➤ *Reworked internals*

ALIBUILD USAGE

Peak 405 active users* / month, 286 different cities, 42 countries

Unique home directories, not counting batch jobs.

PLATFORMS

Ubuntu 14.04 — 26%
macOS — 24%
Other — 8%
slc6 — 11%
slc7 — 13%
Ubuntu 16.04 — 18%

ENHANCED DEFAULTS

You can now add / remove dependencies and in general modify packages metadata from the "defaults" file. No need for a separate branch in many cases.

➤ Before:

```
git clone -b IB/v5-08/root6 alidist

aliBuild build AliPhysics
```

➤ After:

```
aliBuild build --defaults root6 AliPhysics
```

➤ Examples:

debug, root6, o2, o2-daq

Documented at https://alisw.github.io/alibuild/user.html#defaults

MISC

Simplified tutorials

➤ https://alisw.github.io/alibuild/tutorial.html

➤ https://alisw.github.io/alibuild/o2-tutorial.html

Official baseline for O2

aliBuild has been officially blessed as O2 tool. See presentation in O2 plenary by Dario: http://cern.ch/go/DDq9

FUTURE

Integrate with more third party system tools managers

➤ *We already support system packages and Homebrew*

➤ *Conda (popular due to vast catalogue of ML tools)*

➤ *LCG Software Views (useful to better integrate with ROOT SWAN)*

➤ *Extensive modulefiles integration (popular at supercomputer centres, e.g. NERSC)*

Improved docker support

Generate docker images directly from aliBuild, reuse previously built docker images

Finer grained defaults / build steps

No need to rebuild something if you just need to update a modulefile. When you specify --defaults debug, it should not rebuild packages which do not need debug symbols.