

openSUSE® – What's New?

13.2 and the Future

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Topics

Introduction to openSUSE®

openSUSE & SUSE® Linux Enterprise

What's new in openSUSE 13.2

Base OS

Desktop

Server

Cloud

The Future



Introduction to openSUSE®

openSUSE®

- Open Source Community Project sponsored by SUSE®
- Founded 9th August 2005
- “Promotes the use of Linux everywhere”
- Produces the openSUSE distribution



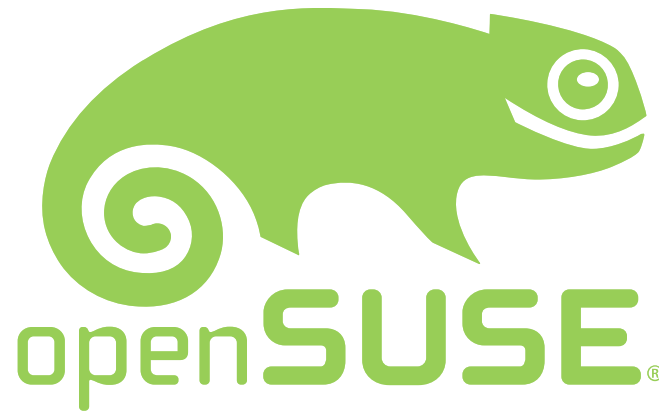


tumbleweed

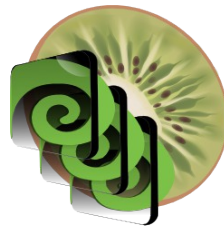
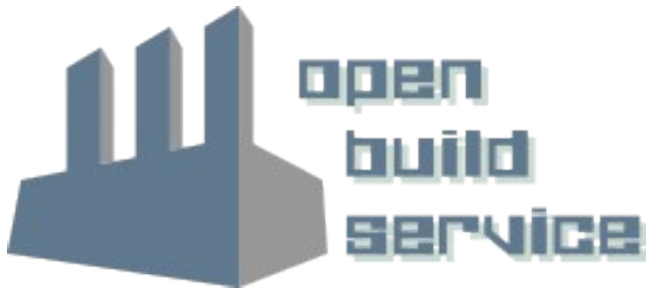


snapper

wicked



openQA

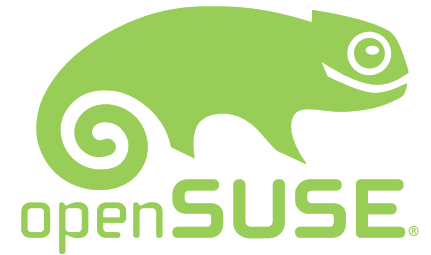


Evergreen

One Project, Three Distributions

openSUSE

- Regular Releases (Every 8-12 months)
- 13.2 just released (4th November)!



openSUSE Tumbleweed

- 'Rolling Release' (Constant Updates)
- Formerly based on latest openSUSE Regular Release
- Now a 'pure' rolling release based on openSUSE Factory



openSUSE Evergreen

- 'Long Term Support' (Patches for extra years)



openSUSE® Distribution

- Successor to the 'SUSE® Linux' Boxed distribution
- Consumer/Enthusiast focus
- First release was 'SUSE Linux 10.0' in October 2005
- Renamed 'openSUSE' with 10.2 in December 2006
- openSUSE 13.2 was released on 4th November 2014
 - Our 14th release!
 - Over 7000 packages (+more in OBS)



openSUSE® Tumbleweed

- Originally a 'rolling release' based on stable releases created by Greg Kroah-Hartman
- Merged with the 'Factory' rolling release on November 4th 2014, which leverages OBS and openQA to deliver a 'true' rolling release
- Developer/Contributor focus

Open Build Service

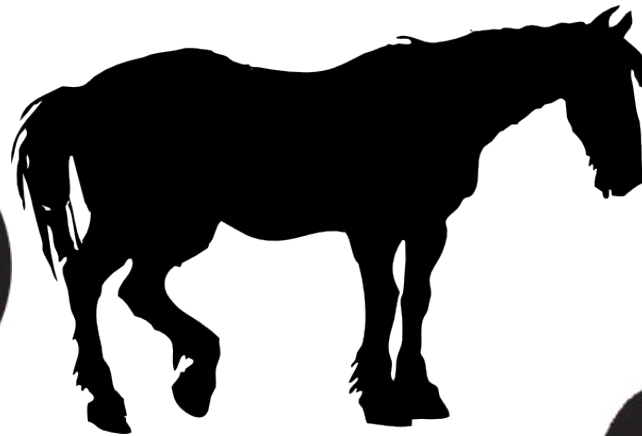
- Free, Open Platform for packaging software for open source distributions
- Started in February 2006
- Used to build the openSUSE® distribution
- Can also build packages for other distributions (Fedora/Red Hat, Ubuntu, Debian, Arch, etc)
- Also used by ownCloud, Linux Foundation, VideoLAN (VLC), Dell, Cray, Intel and more.

openQA

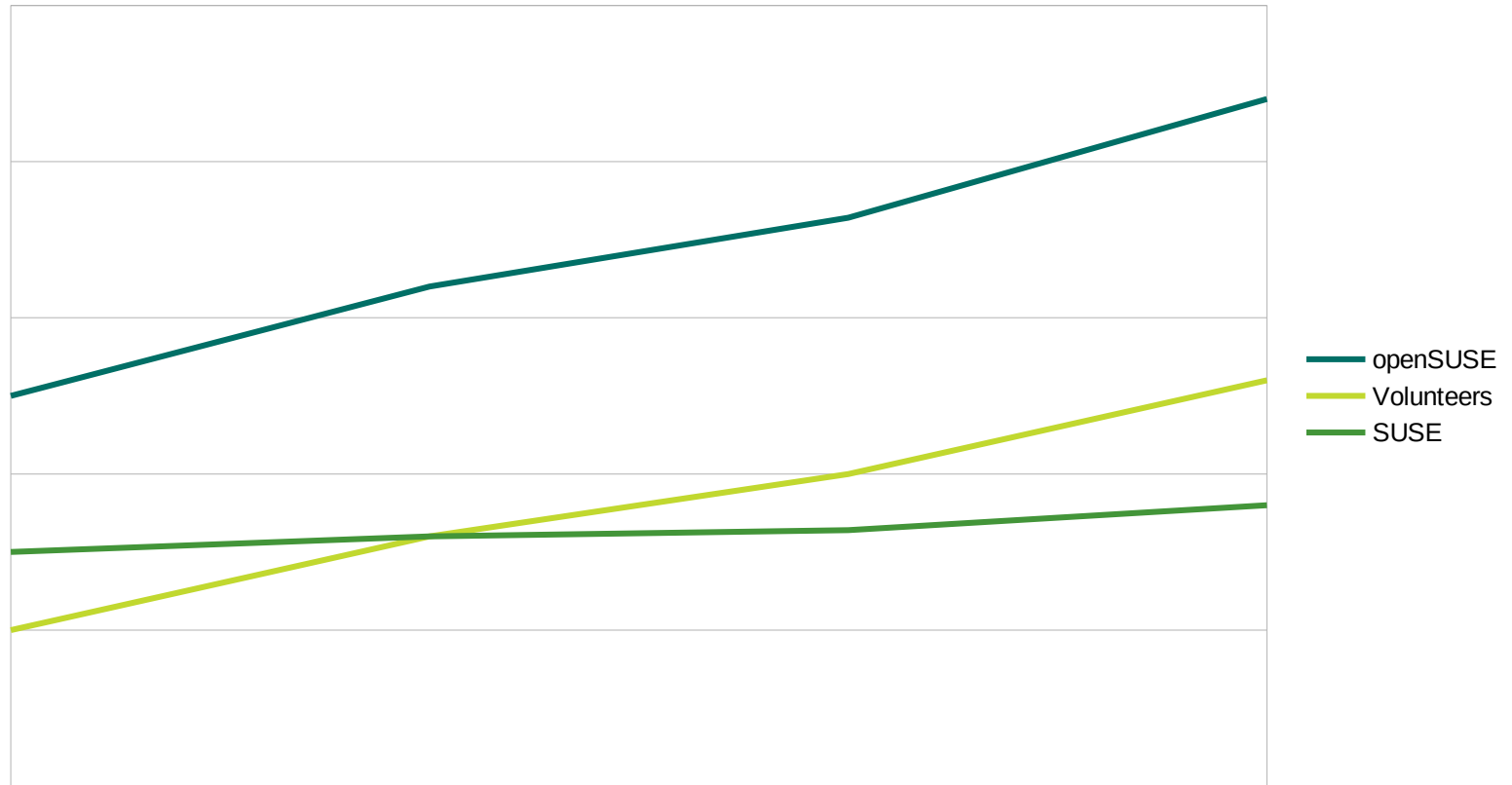
- Open Source distribution testing framework
- Able to fully test Linux distributions from install to user applications
- Used by the openSUSE® distribution, Factory, and SUSE®
- Version 1.0 released in October 2011

openSUSE® & SUSE® Linux Enterprise®

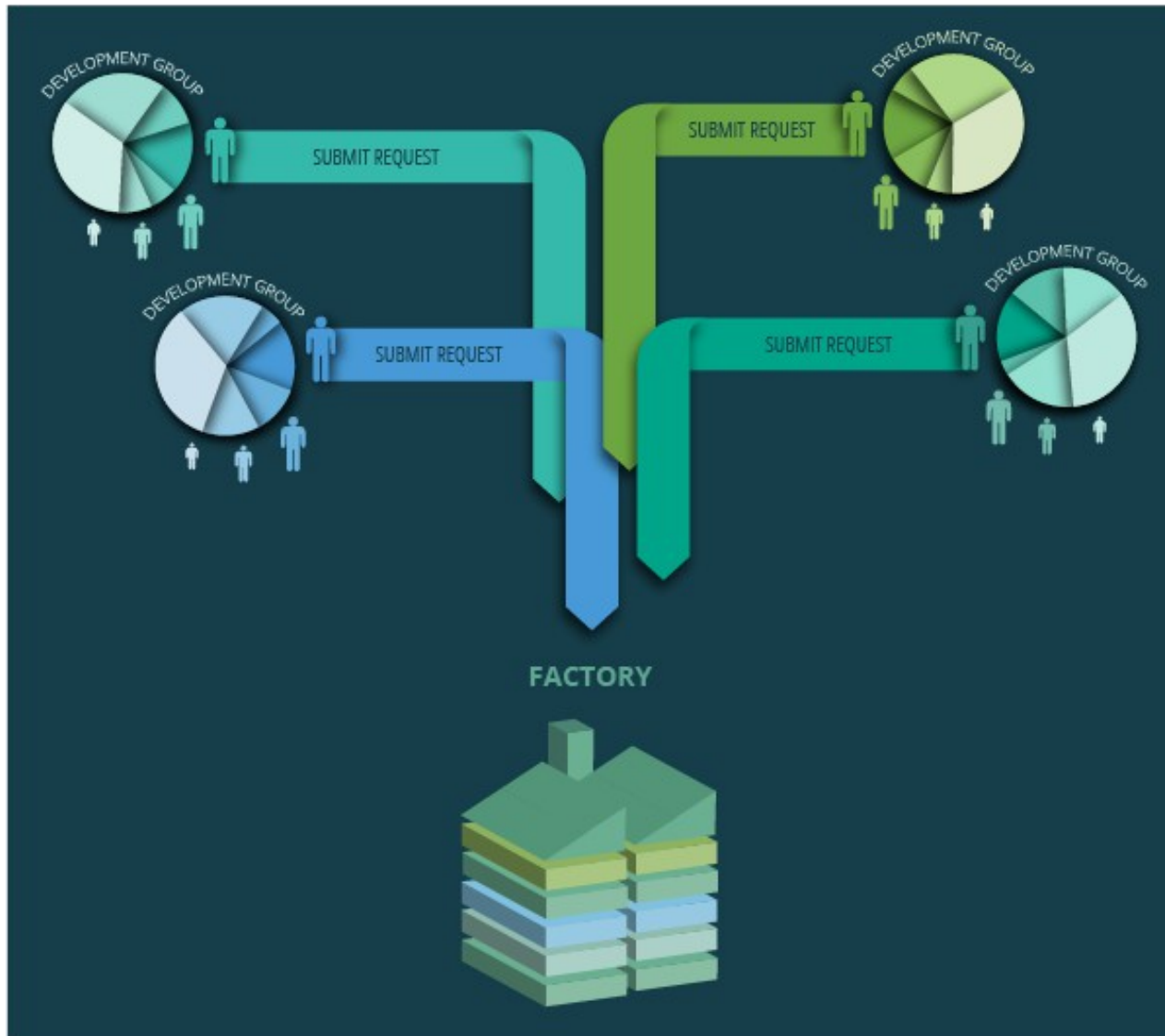
openSUSE® & SUSE® Linux Enterprise



Growing Contributor Base



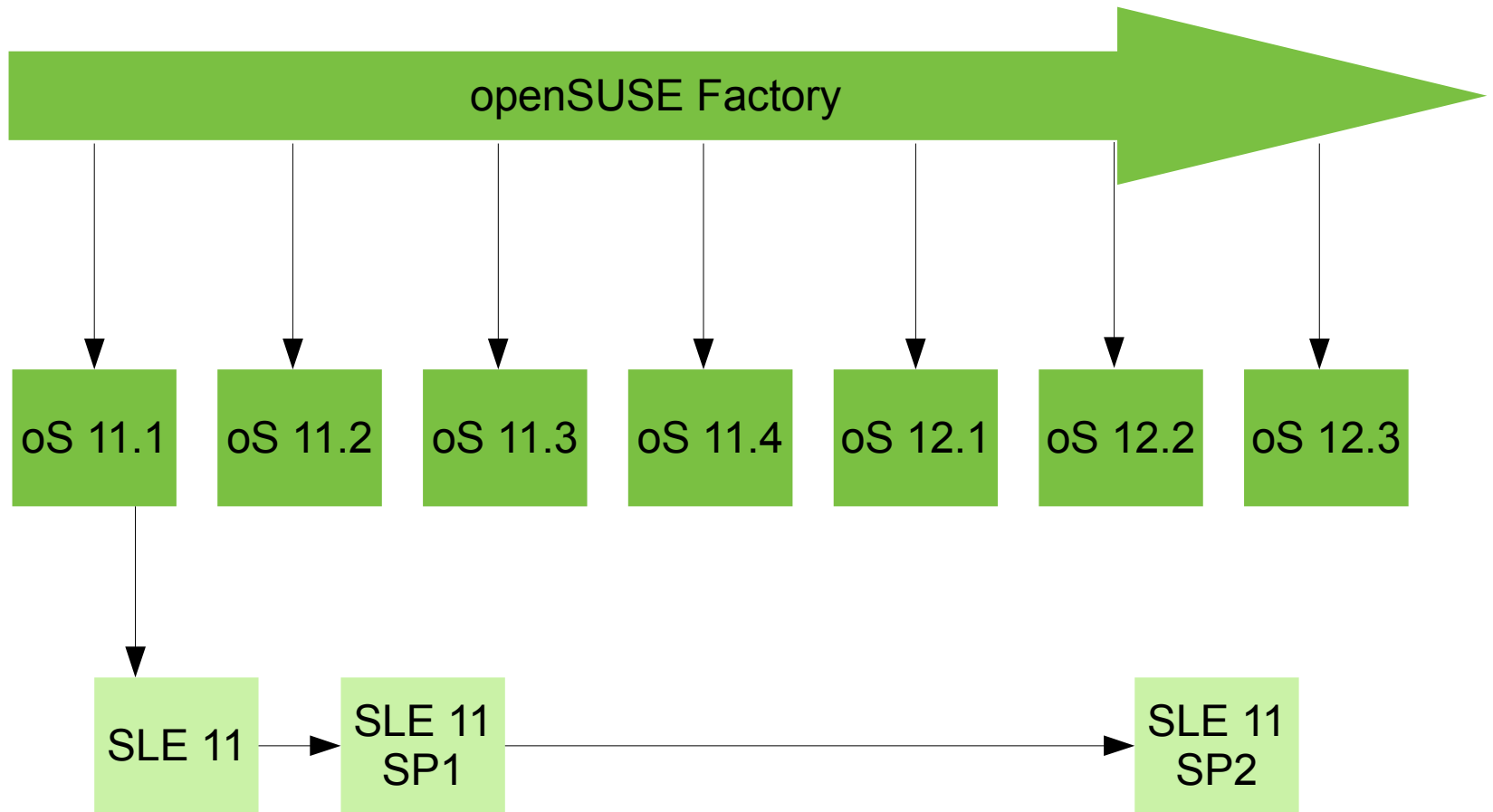
Development Groups



Submitting to Factory



openSUSE® and SLE – The Past



What's New in openSUSE® 13.2

Base OS

- Kernel
- Filesystems
- YaST Installer

Base OS

Kernel - Highlights

- Improved performance for virtualized guests
- Squashfs performance improved (used by LiveCDs)
- TCP Fast Open
- Improved performance in NUMA systems
- Improved ARM Support (KVM/Xen for ARM64)
- Improved performance, power management and switching for GPUs
- Support for Xbox One controller
- Faster resume from power suspend
- Toshiba and Dell 'free fall' protection

Base OS

Filesystems

- Btrfs as default / (root) filesystem
 - Snapshots/Rollback with snapper
 - Boot to snapshot
 - Offline data duplication support in Btrfs
- XFS as default /home (data) filesystem
 - Improved directory recursion scalability/performance
 - Faster inode allocation
- FUSE improved write performance

Base OS

New YaST® Installer

- Improved Workflow
- Reduced Steps
- Single Reboot

Base OS

New YaST® Installer

openSUSE

Performing Installation

[Slide Show](#) [Details](#) [openSUSE Release Notes](#)

Actions performed:

- Setting disk label of /dev/vda to MSDOS
- Setting type of partition /dev/vda1 to Linux Swap (82)
- Creating volume /dev/vda2
- Creating volume /dev/vda3
- Formatting partition /dev/vda1 (1.46 GiB) with swap
- Formatting partition /dev/vda3 (8.53 GiB) with xfs
- Formatting partition /dev/vda2 (10.00 GiB) with btrfs
- Creating subvolume boot/grub2/i386-pc on device /dev/vda2
- Creating subvolume boot/grub2/x86_64-efi on device /dev/vda2
- Creating subvolume opt on device /dev/vda2
- Creating subvolume srv on device /dev/vda2
- Creating subvolume tmp on device /dev/vda2
- Creating subvolume usr/local on device /dev/vda2
- Creating subvolume var/crash on device /dev/vda2
- Creating subvolume var/lib/mailman on device /dev/vda2
- Creating subvolume var/lib/named on device /dev/vda2
- Creating subvolume var/lib/pgsql on device /dev/vda2
- Creating subvolume var/log on device /dev/vda2
- Creating subvolume var/opt on device /dev/vda2
- Creating subvolume var/spool on device /dev/vda2
- Creating subvolume var/tmp on device /dev/vda2
- Mounting /dev/vda1 to swap
- Adding entry for mount point swap to /etc/fstab
- Mounting /dev/vda2 to /
- Adding entry for mount point / to /etc/fstab
- Mounting /dev/vda3 to /home
- Adding entry for mount point /home to /etc/fstab
- Deploying image KDE [base]...

Installing... 14%

Deploying Images... 11%

[Help](#) [Abort](#) [Back](#) [Next](#)

Desktop

- GNOME 3.14
- KDE
- LXDE, Enlightenment, XFCE

Desktop

GNOME

- GNOME 3.14

- New animations for Activities and windows
- Automatic handling for Wi-Fi networks that require login (Captive Portals)
- Redesigned Weather application
- Support for browsing Google pictures in Photos application
- Improved touchscreen support, including multi-touch gestures

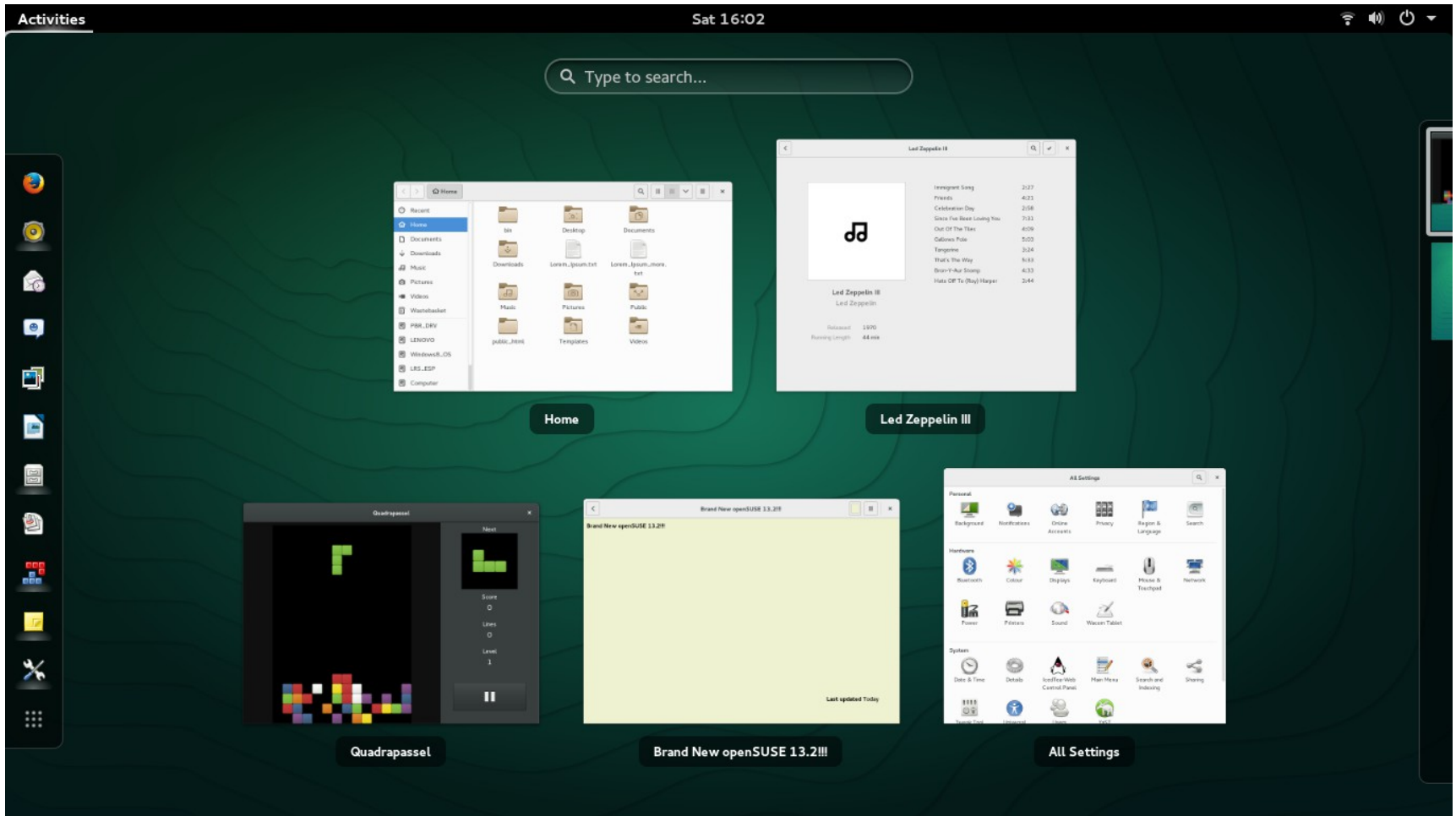
- GTK 3.14

- GTK+ Inspector (examine and modify running GTK+ apps)
- SVG assets in GTK+ themes
- Improved Wayland support



Desktop

GNOME



Desktop

KDE

- KDE 4.14.2

- Kopete IM – Support for Audio Calls, improved proxy support
- Okular PDF Viewer – bugfixes and refactoring
- Kate Text Editor – New Highlighting rules, improved vi mode, folding comment blocks
- Dolphin File Browser – Bugfixes, improved free space reporting
- Marble Atlas – Thumbnailing support in Dolphin, improved Political/Governmental boundaries

- Plasma 5

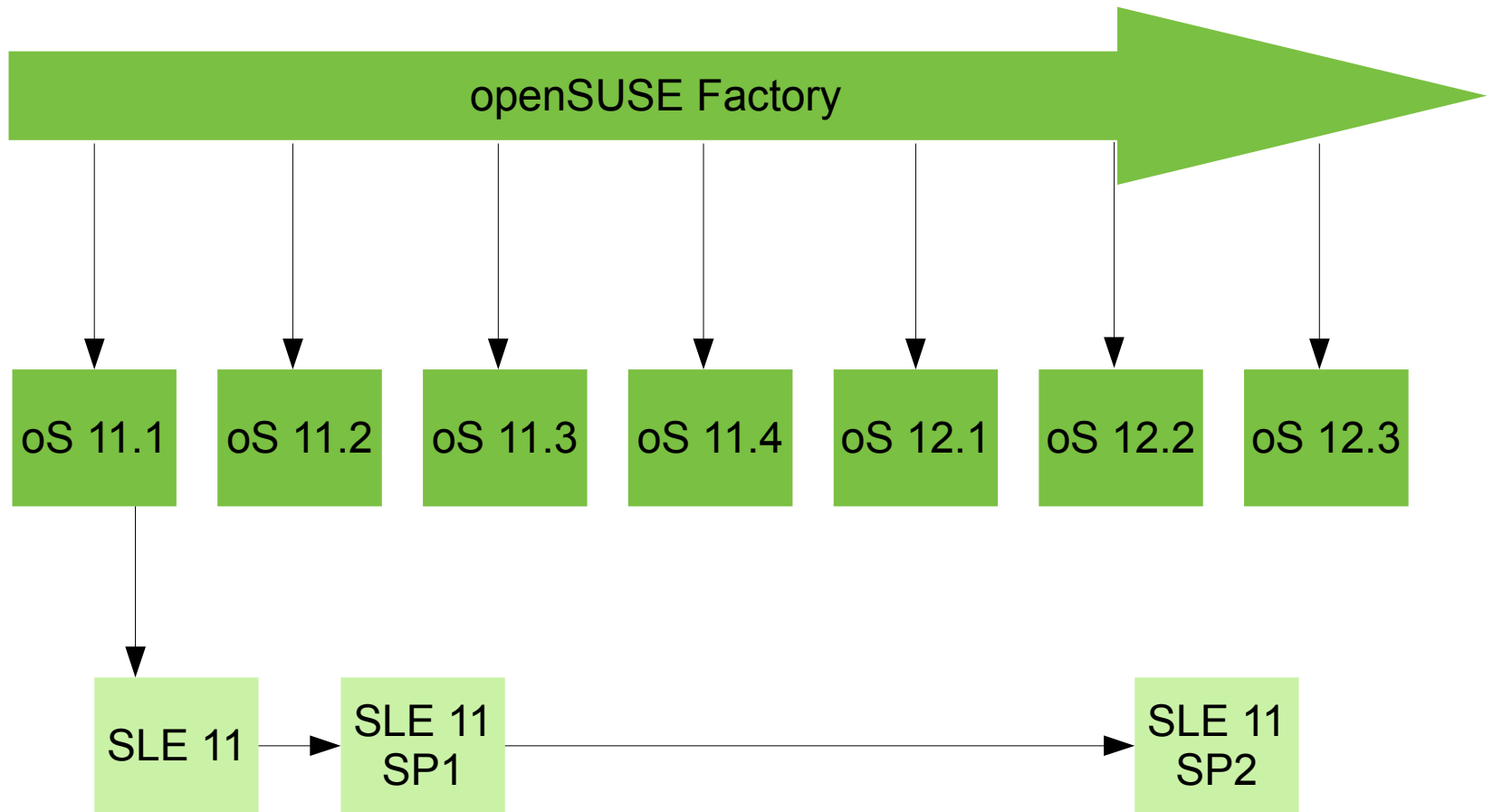
- Tech Preview

Server & Cloud

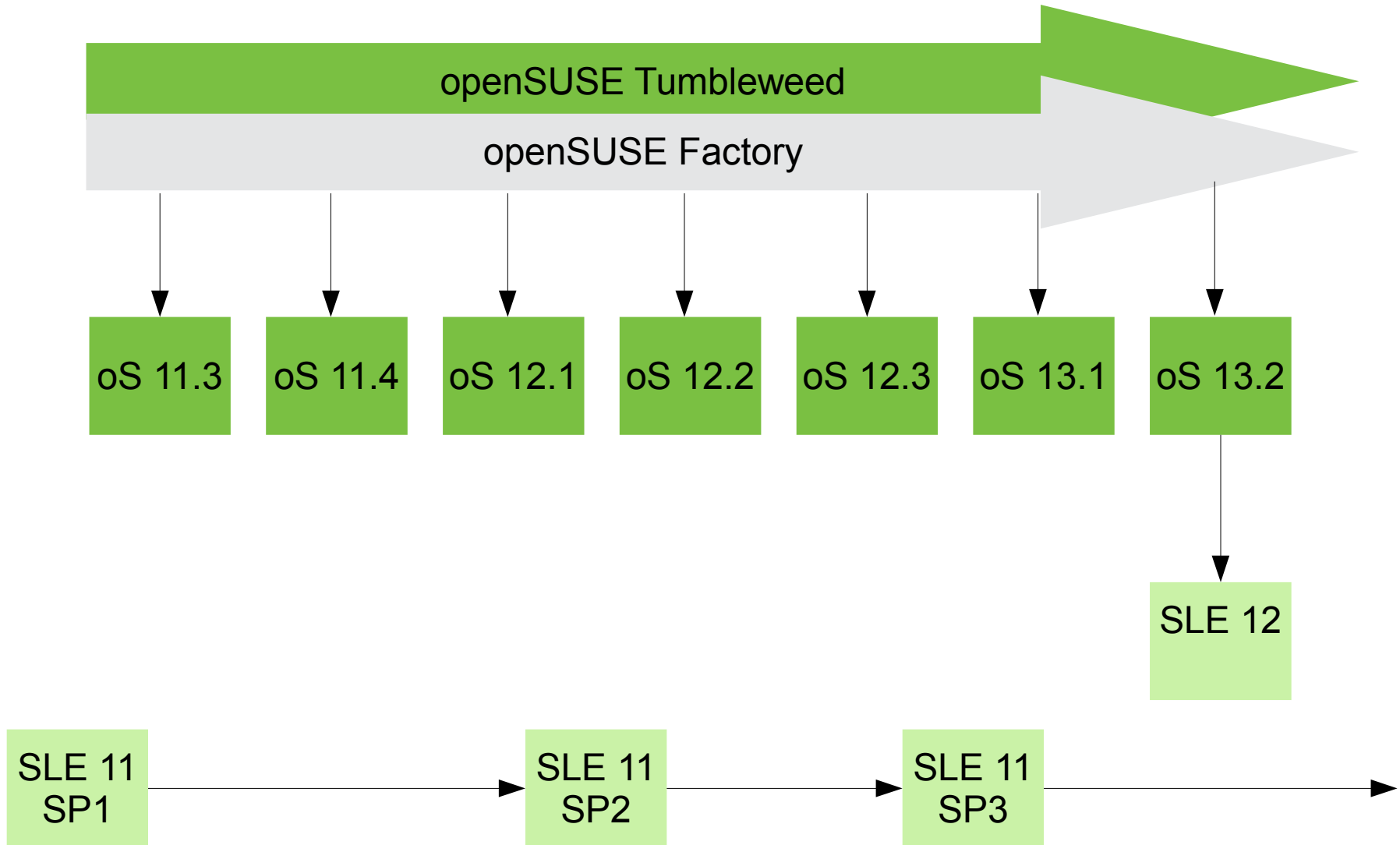
- Apache
- MariaDB
- Pacemaker & Corosync (HA)
- Docker
- Public Cloud
- Open Stack

The Future



openSUSE® and SLE – The Past






openSUSE® and SLE – The Present



Status Quo, the openSUSE® View

- Pretty Good 
- openSUSE Project is highly independent 
 - free to set it's own pace and priorities
 - technical decisions made by the community
 - “those who do, decide”
- More users & contributors to Factory needed
- Increased support/contributions from SUSE® only around SLE releases
 - “wouldn't it be nice if....”

Status Quo, the SUSE® View

- Pretty Good 
- SLE is a successful enterprise product 
 - Stable, well engineered, long lasting
 - Focused on customer needs and demands
- openSUSE® and SLE 12 codebases are currently very close 
- openSUSE is moving faster
 - New technologies take time and effort to learn and adapt
- Developments in openSUSE could benefit SUSE customers
 - “wouldn't it be nice if....”



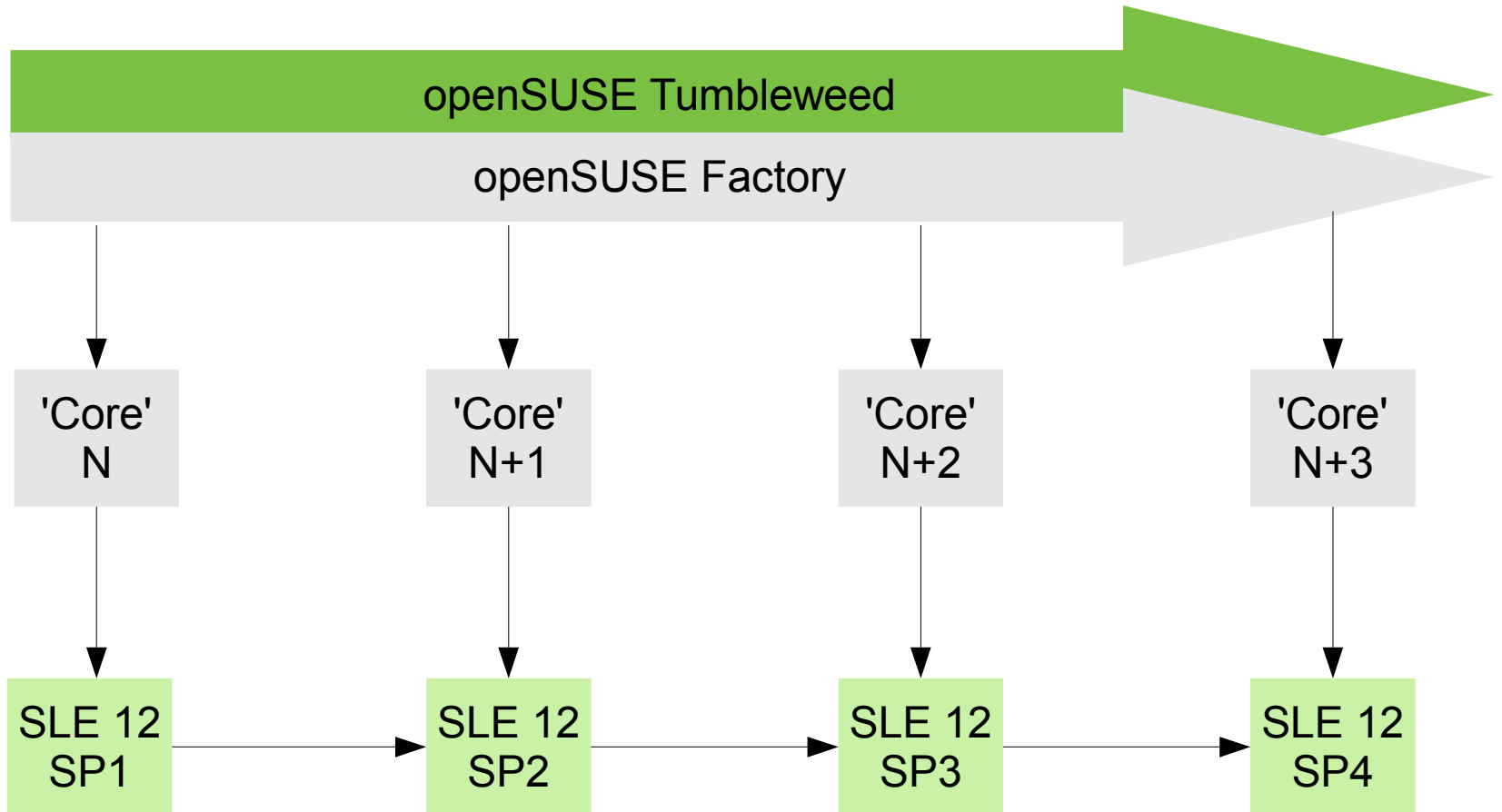
— Traveling —
together again!



'Core'

- SUSE® intend to develop 'Core' (Final name pending), a foundation which will form the basis of future SLE releases
- 'Core' will be based on Factory, regularly pulling selected improvements from the main openSUSE® Code Stream

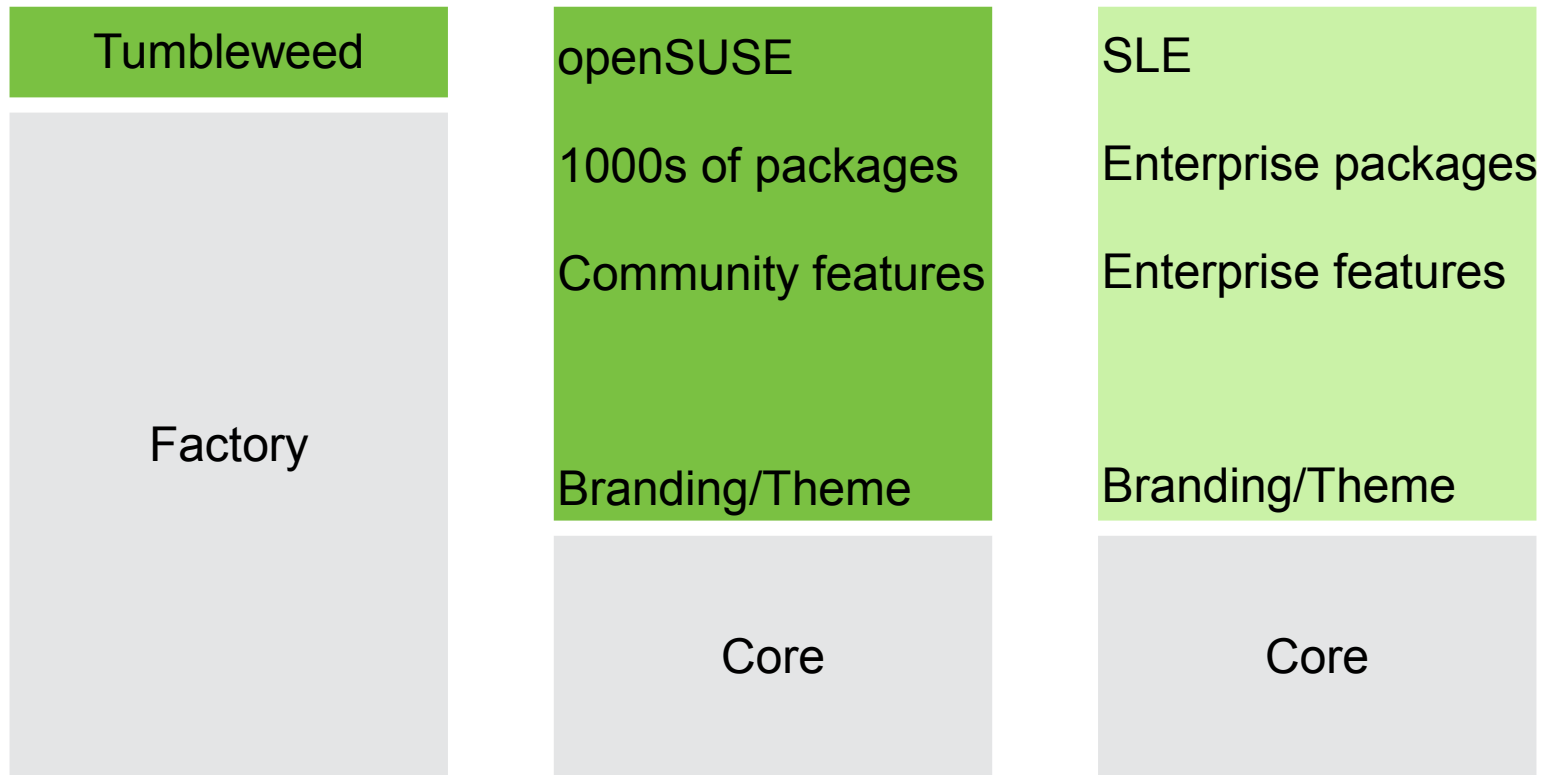
SLE and 'Core'



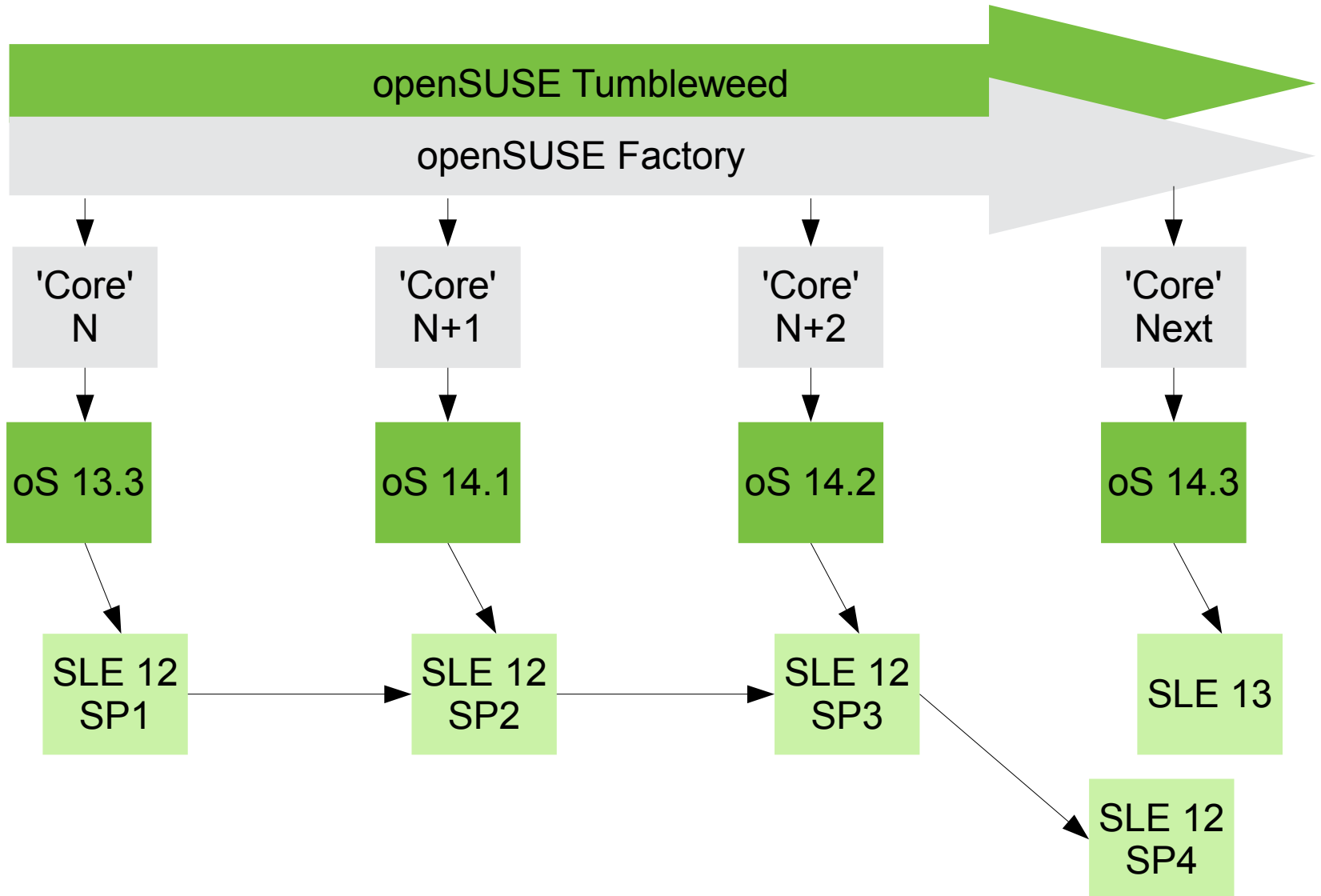
openSUSE[®] based on 'Core'?

- The openSUSE community are currently discussing the possibility of basing their regular releases on 'Core'
- This could provide the 'Core' foundation additional testing and contributions in addition to those provided by SUSE[®]

openSUSE® and SLE – The Future?



openSUSE® and SLE – The Future?



Questions?

Join the conversation,
contribute & have a lot of fun!
www.opensuse.org

Thank you.





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