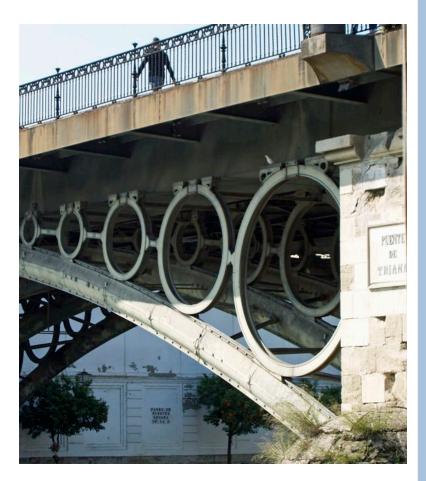


Gallium3D Design Goals

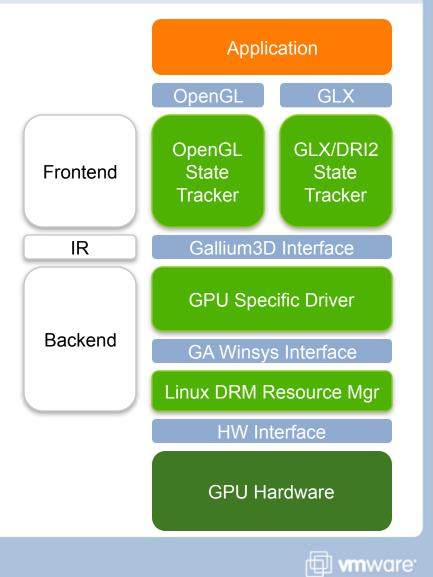
- Portability to all major operating systems and graphics interfaces
- Make drivers smaller and simpler
- Reuse HW drivers and API implementations
- Reflect current graphics hardware design





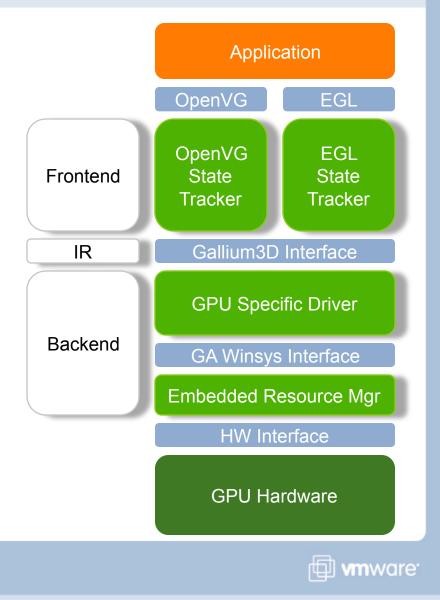
Gallium3D Architecture

- Frontend state-trackers are specific to API's
- Backend drivers are specific to GPU Hardware
- Drivers are parameterized to OS with winsys component.
- Frontends and drivers can be connected in many combinations.



Gallium3D Architecture

- The interface is key,
 isolating API handling
 from hardware details
- ♦ Gallium is the interface
- The interface is still evolving, influenced by:
 - new APIs
 - new hardware
 - new ways to use the stack



Gallium3D Architecture

- Support new API, reuse hardware drivers.
- Build new hardware driver, get many API's for free.
- Port existing graphics stacks to new operating systems with minimal effort.

