



inspirata

The middleware problem: a tale of abstraction

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Hello



**Code less.
Create more.
Deploy everywhere.**



Code less



tick



Create more



damn, tick



Deploy
everywhere?



Dario



Middleware





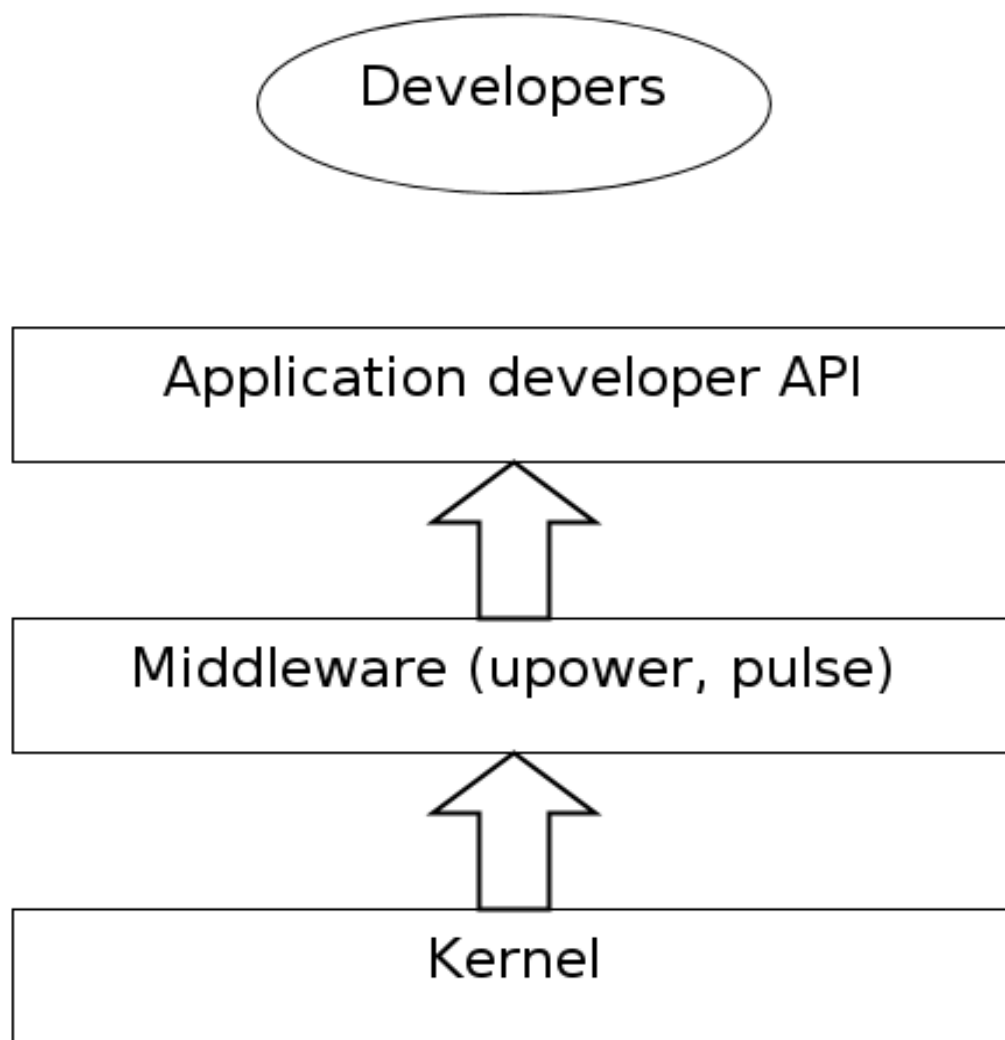
ispirata

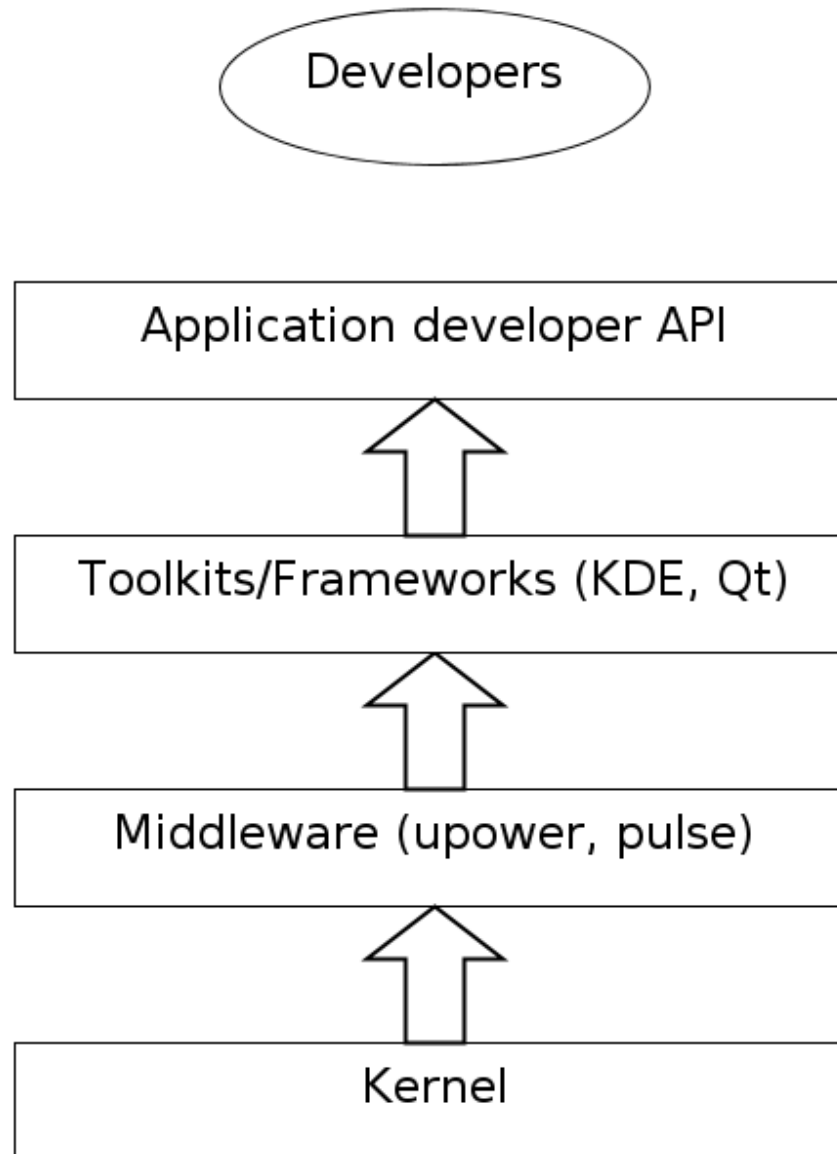


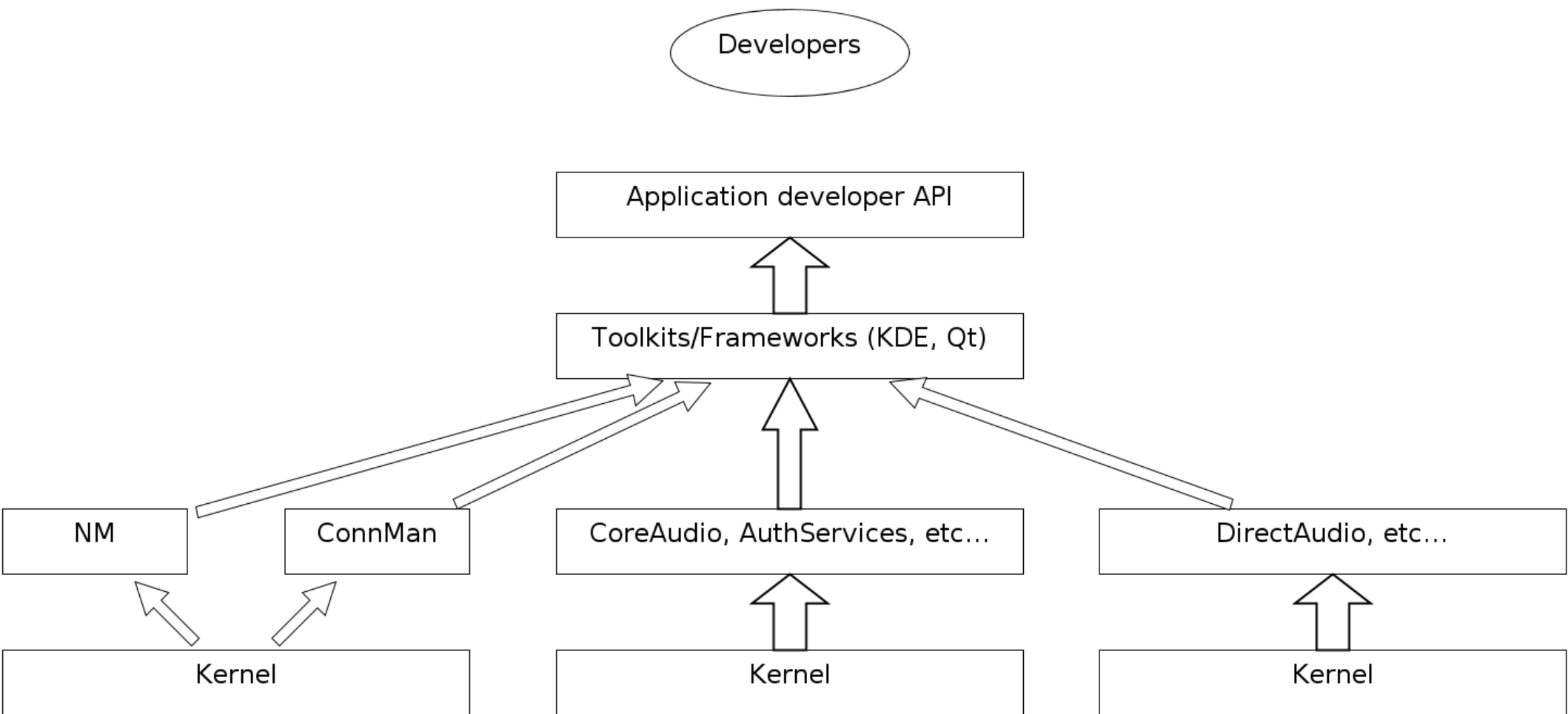
Why?

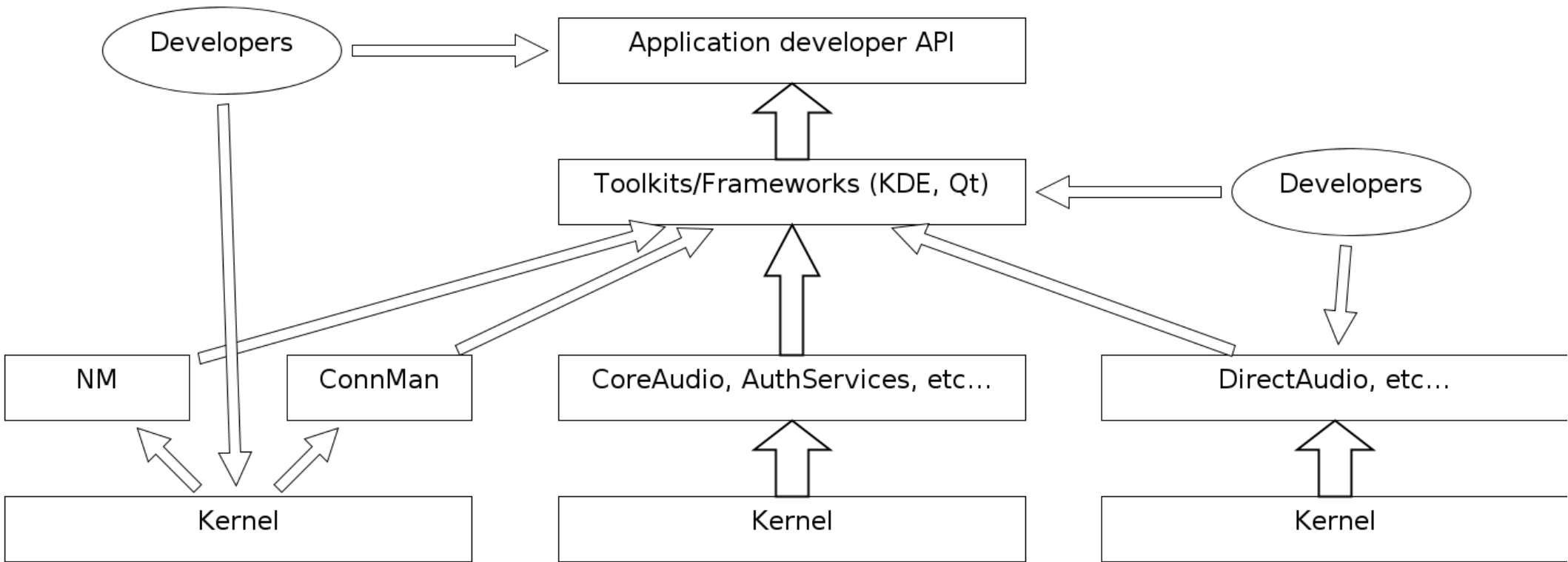


Platform











Complicated



Different developers



Different developers Needs



```
play("cat.wav");
```



```
create(const ObjectPtr & source,  
Format format, quint64 amount,  
double rate, bool flush, bool  
intermediate, quint64 duration, bool  
eos);
```



Results?



A single API
does not fit



Can't I just use
the lower layer?



Platform



Give choice



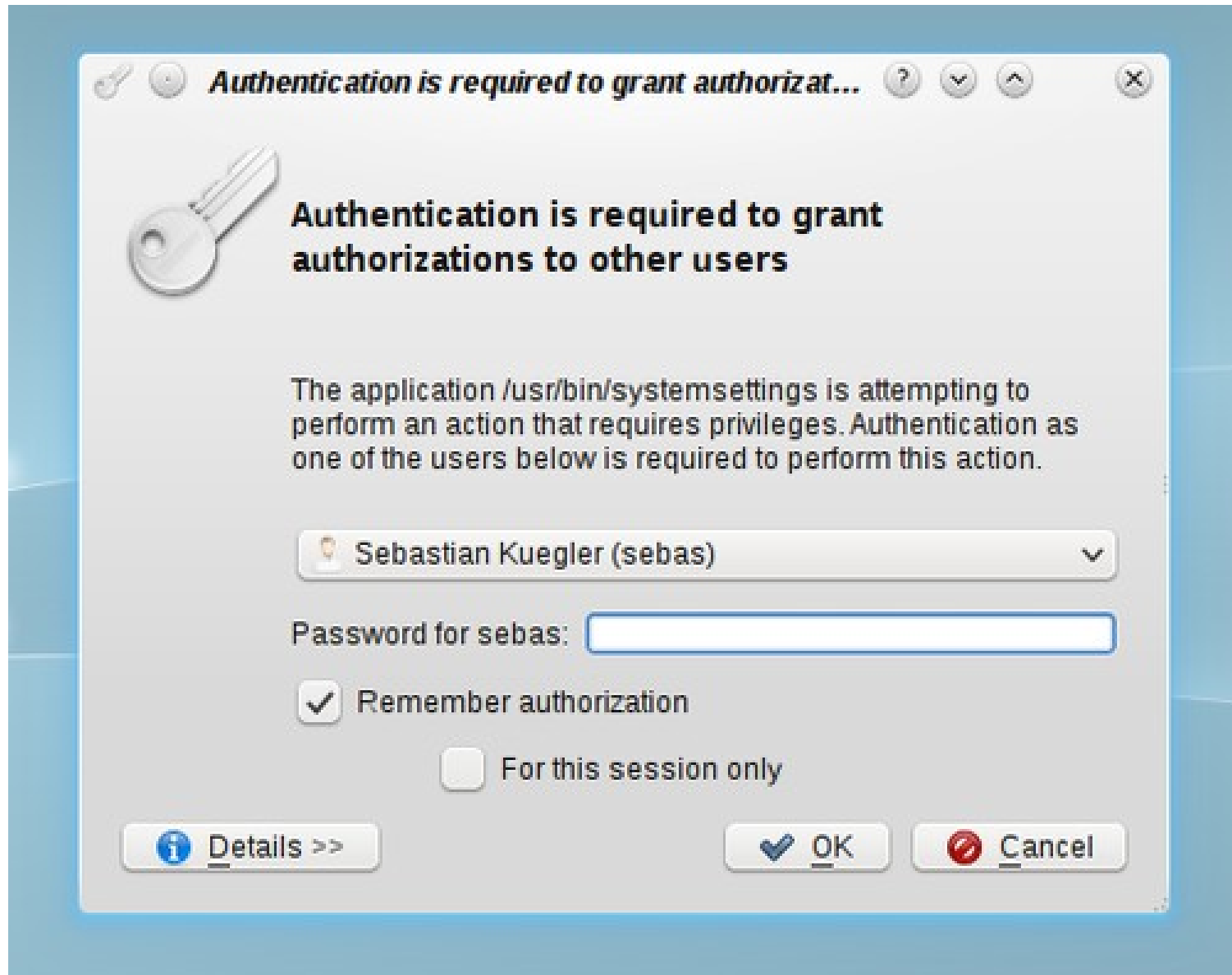
Give choice
Do not force



Solutions?



KAuth

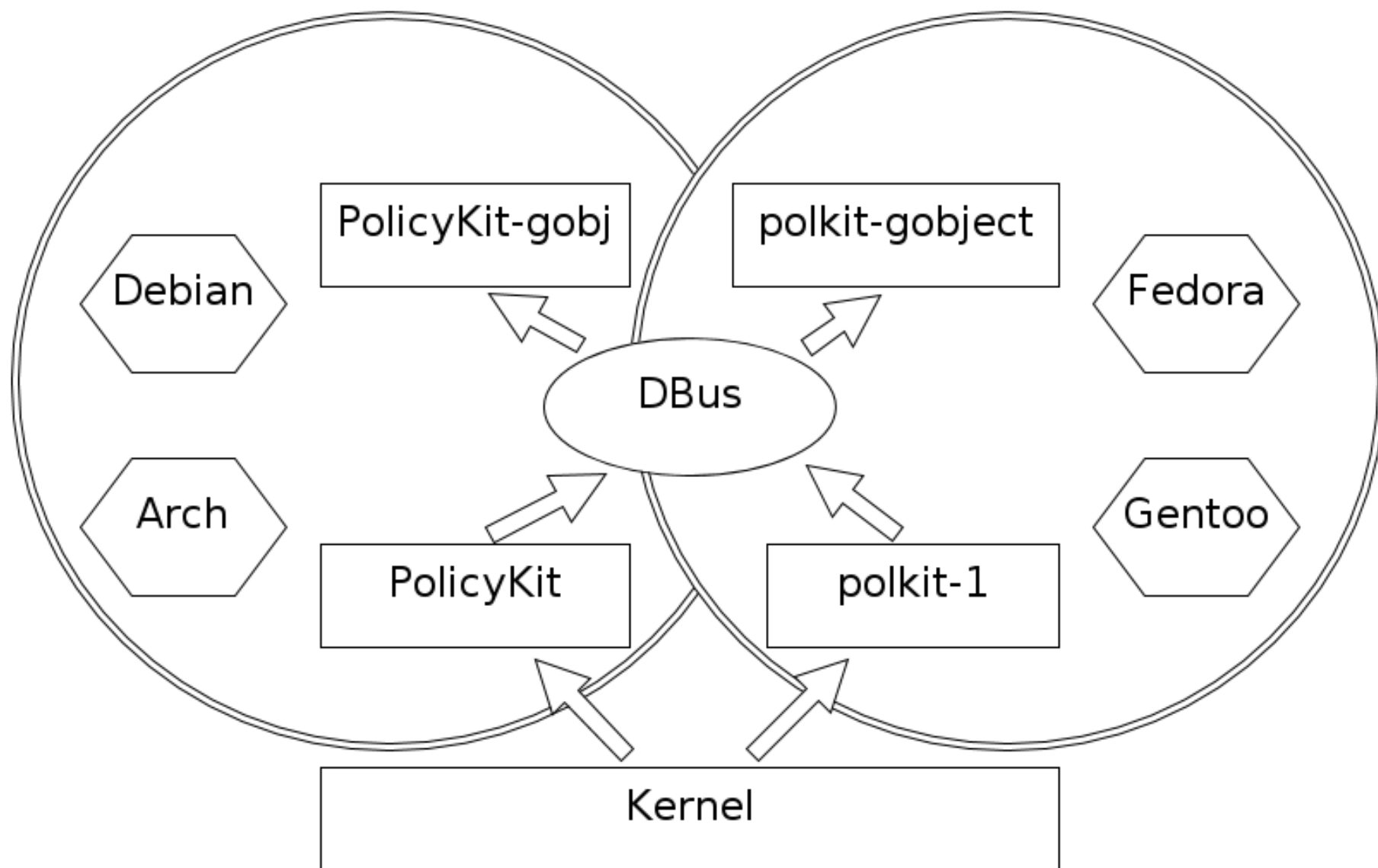




Framework



The problem





What about
developers?



Support new
framework



Support new
framework

Lose compatibility



Support old
framework



Support old
framework

Rewrite code later,
lose compatibility



Using Qt?





Support both



High-level API



```
KAuth::Action action("my.own.action");  
action.execute("my.own");
```



Easy to use



Tailored around a
specific use case



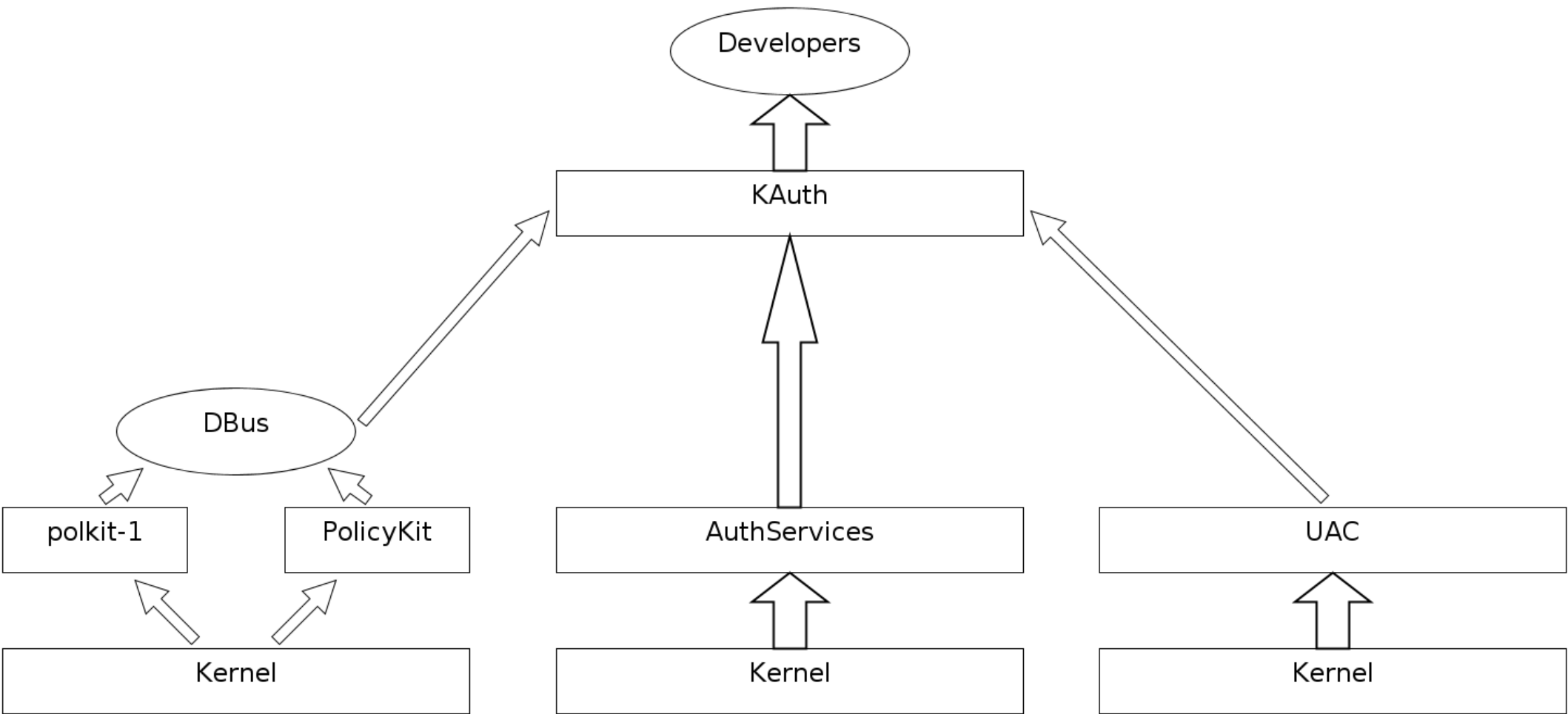
Insufficient for
developing clients

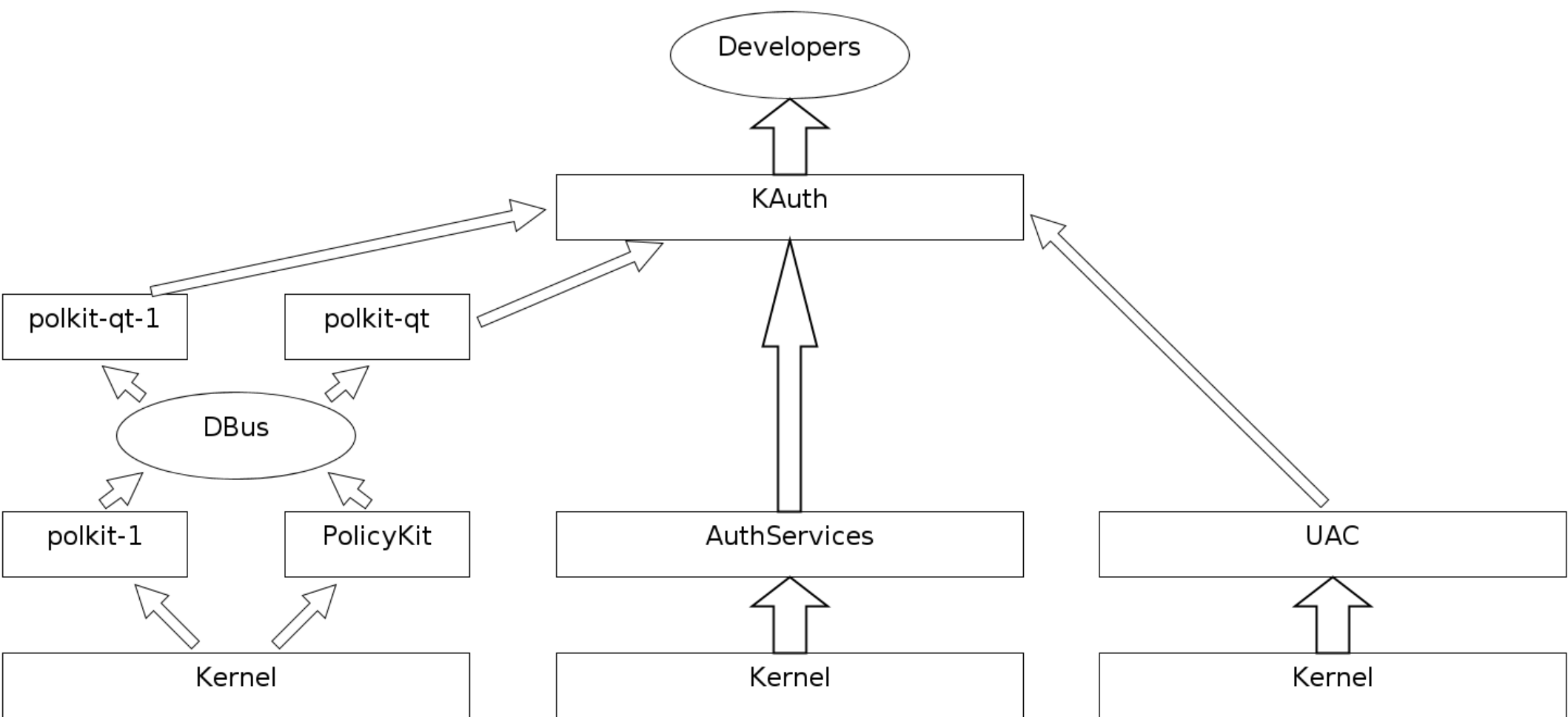


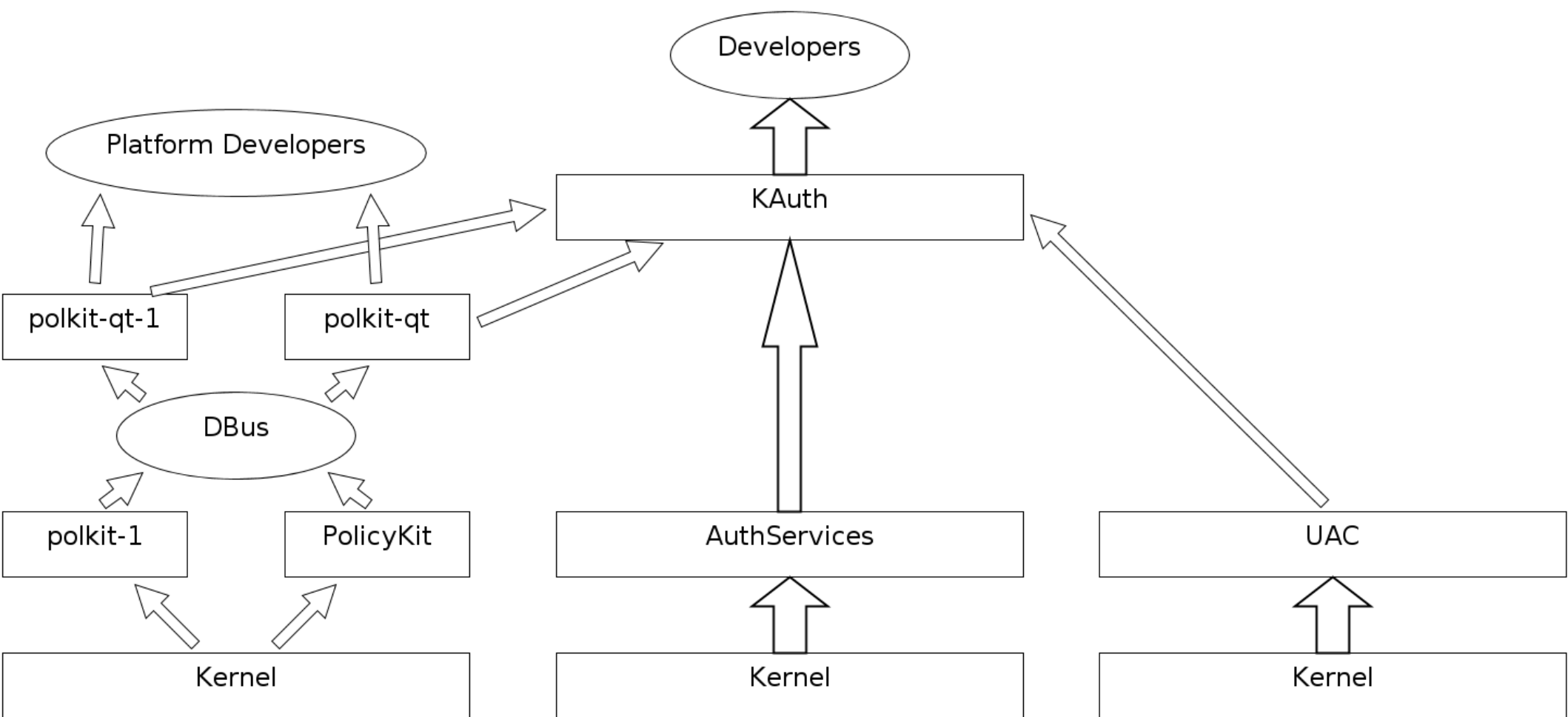
A high level API
shouldn't make
sense for that



Bind twice









Client libraries

==

Qt bindings



Not needed
on all platforms



Cannot be
abstracted



Platform developers
don't want
abstraction



Platform developers
don't ~~want~~ need
abstraction



Useful for
high-level APIs



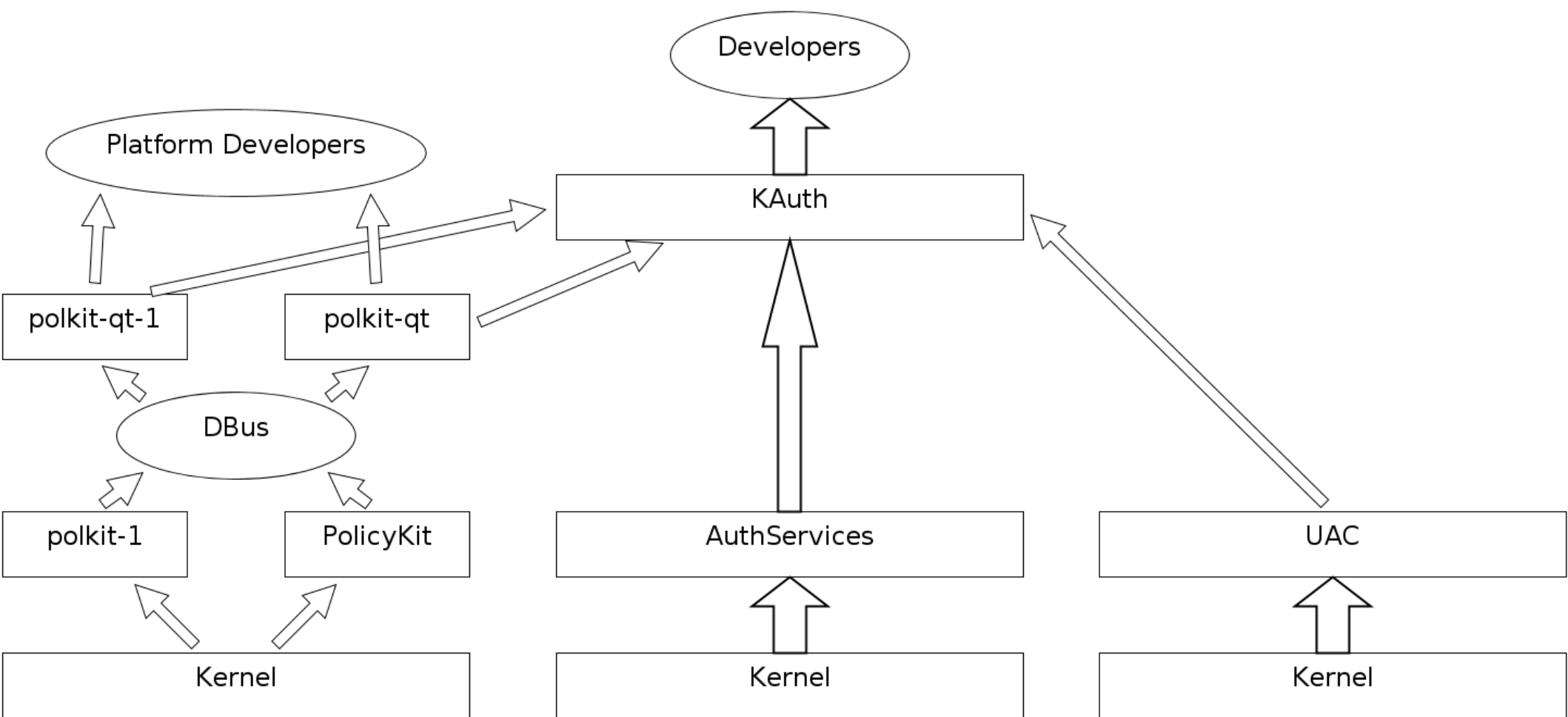
Reduce fragmentation

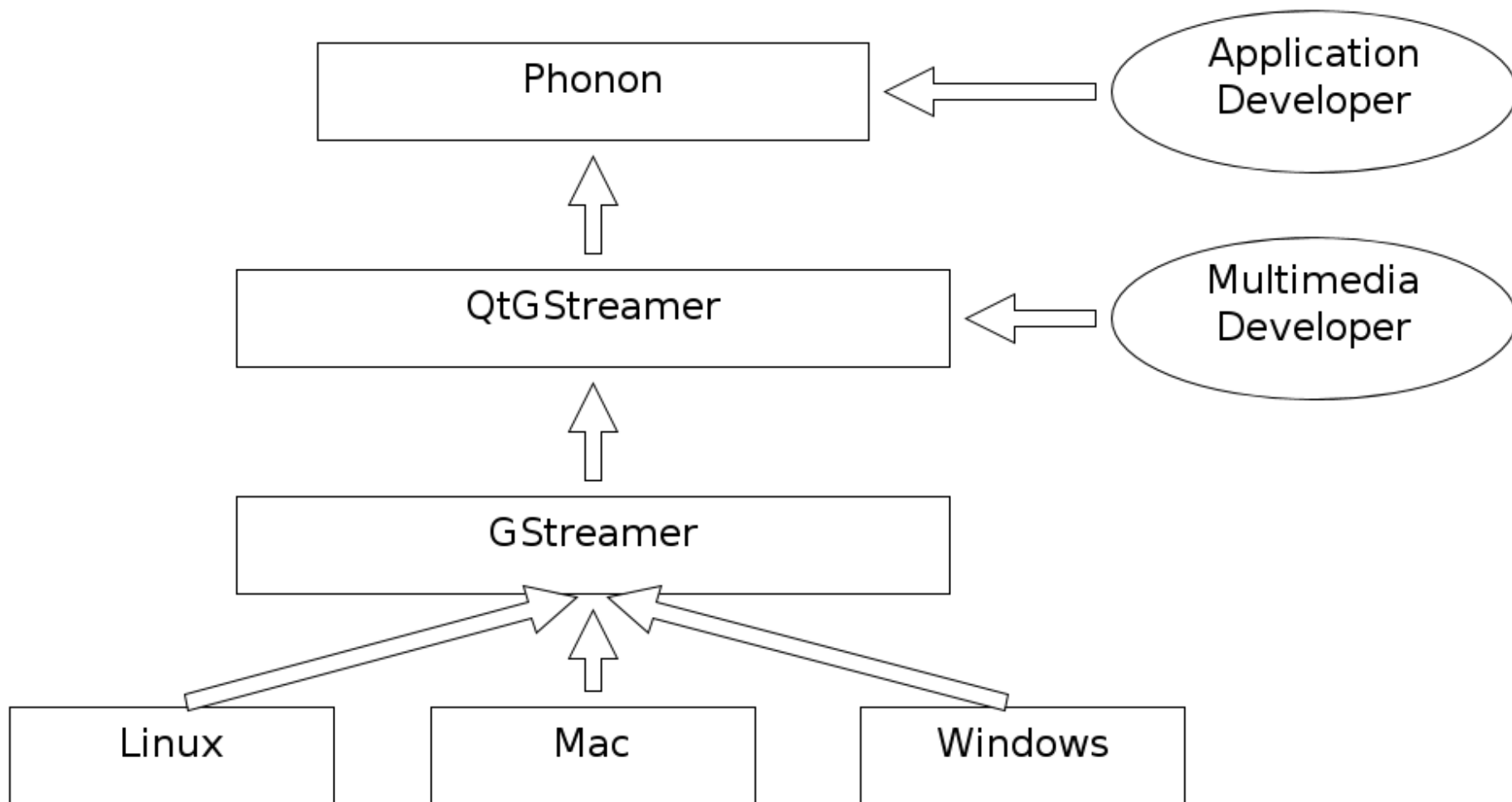


No need to be
familiar with
different toolkits



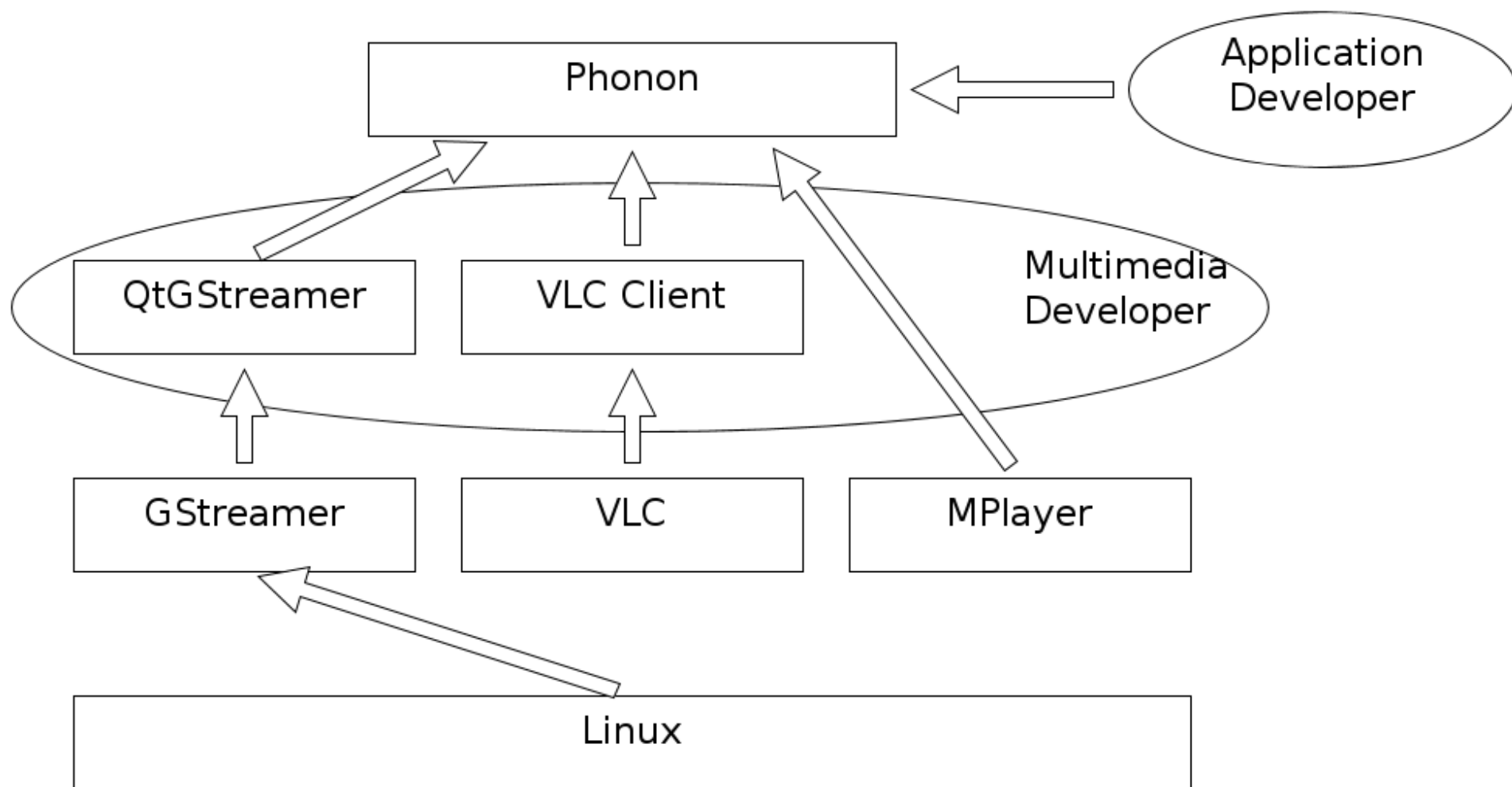
Improve
teamwork







Empower
developers





Give more
choice



Simplify



Qt as a platform



Qt *IS* a
platform



**Code less.
Create more.
Deploy everywhere.**



Deploy
everywhere?



tick



but



It's not always
convenient



Deploy
everywhere,
Support all that's
needed



Thanks!

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Questions?

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