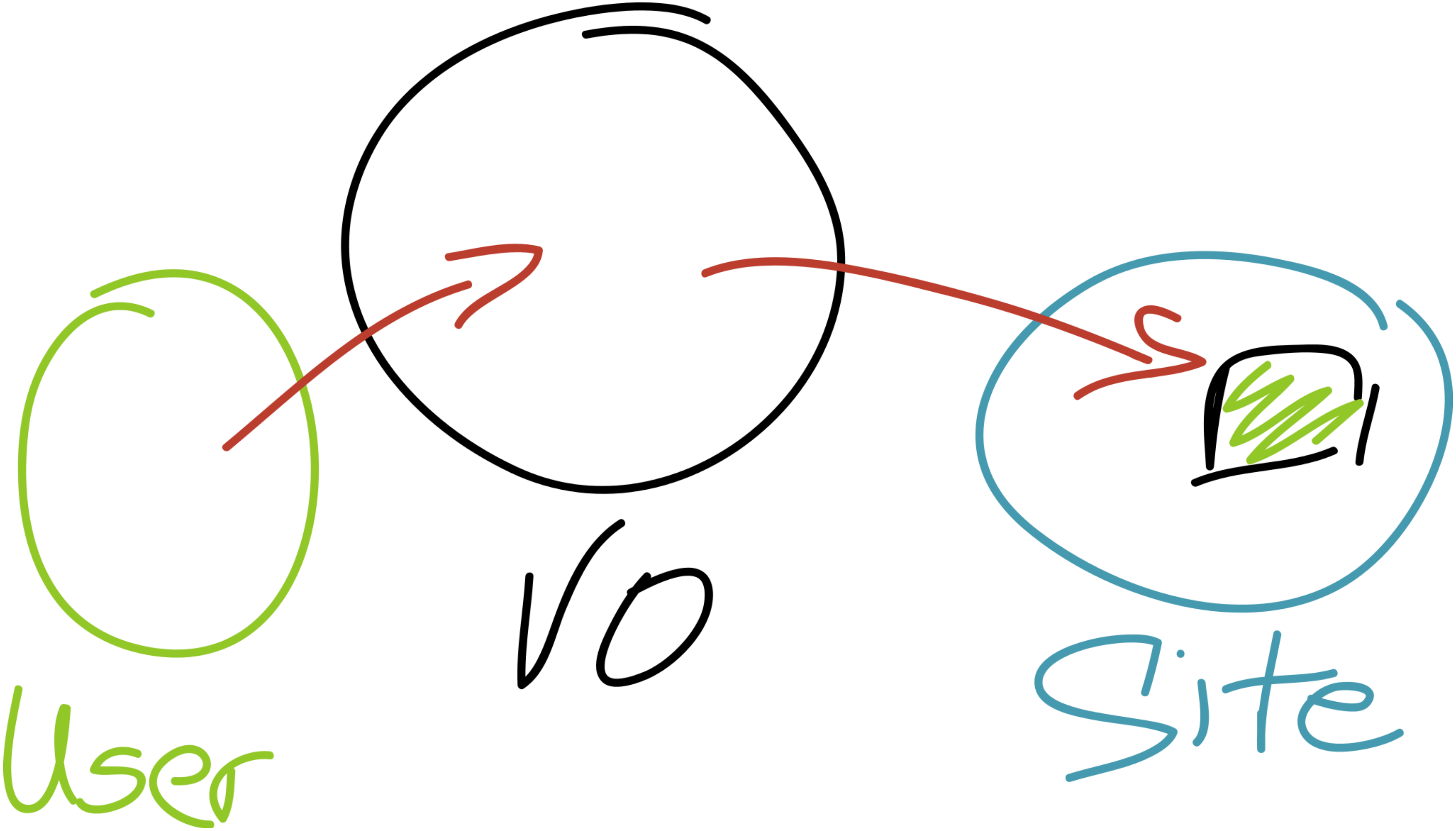
The issue of delegation with proxy certificates

Steffen Schreiner, GDB meeting, TEG Security Status
CERN, 14th of December

Delegating a Grid job in the WLCG



Explicit and definite delegation
(who + what/to whom + how)

MySwissBank
123 Somewhere In Town
CH-120X Maybe Geneva
Date: 14th of December 2011, 11:05 am.

To Whom It May Concern:

I, Steffen Schreiner, hereby authorize …………………… to order transactions in favor of Ms. Mickey Mouse, Mr. Obi-Wan Kenobi, or Mr. Tinky-Winky with regards to my Bank Account No. 123456789 up to a limit of 900 CHF total per month.

This authorization is valid for 3 month.
Respectfully yours,

Steffen Schreiner

(Name & signature of authorized person) ……………………………………

Almost explicit delegation (who + (what))

MySwissBank
123 Somewhere In Town
CH-120X Maybe Geneva
Date: 14th of December 2011, 11:05 am.

To Whom It May Concern:

I, Steffen Schreiner, hereby authorize …………………… to claim my checkbook and to represent me in my banking transactions with regards to my Bank Account No. 123456789 without any limits.

This authorization is valid for 1 year.

Respectfully yours,

Steffen Schreiner

(Name & signature of authorized person) …………………………………

Full delegation
(whoever + whatever)

MySwissBank
123 Somewhere In Town
CH-120X Maybe Geneva
Date: 14th of December 2011, 11:05 am.

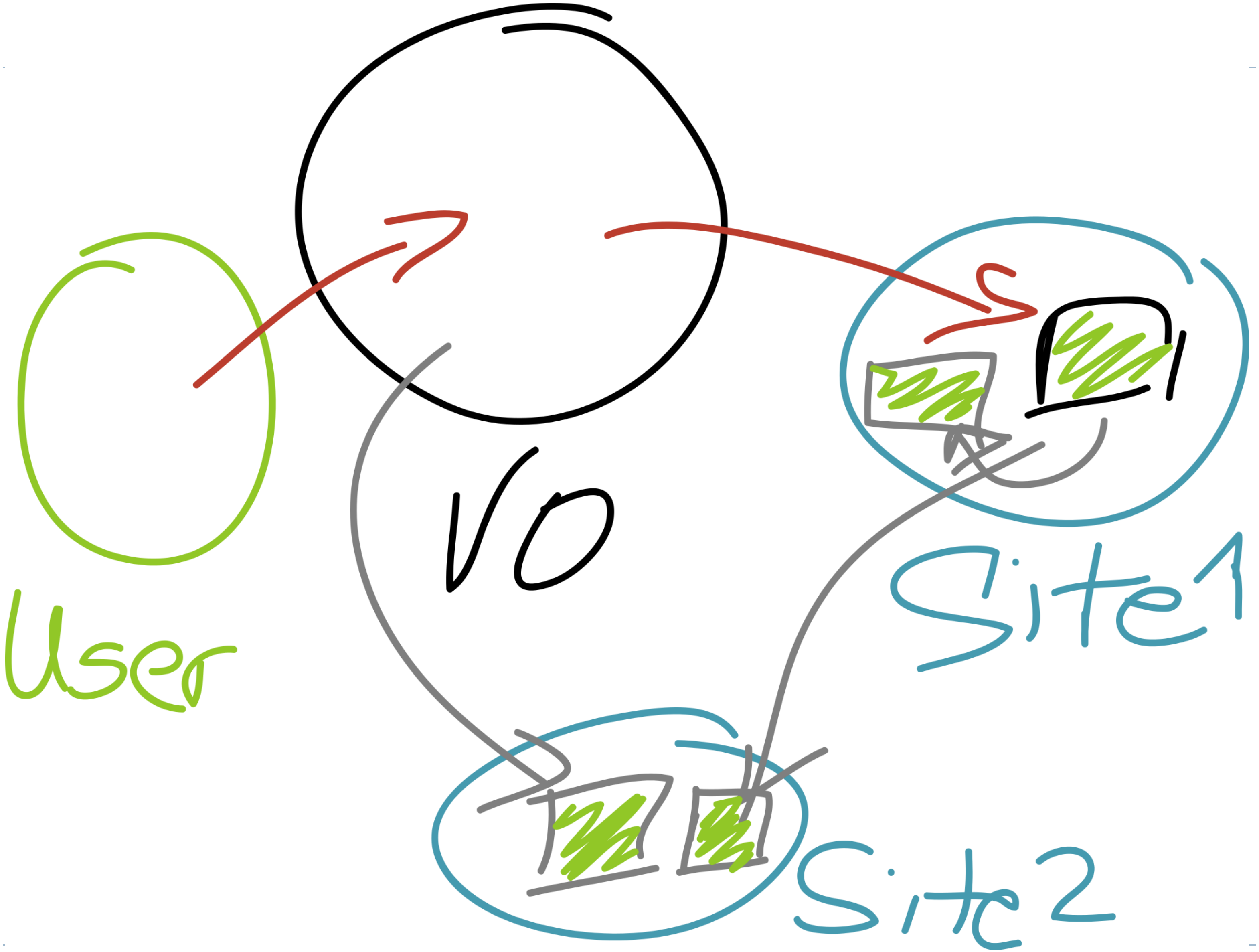
To Whom It May Concern:

I, Steffen Schreiner, hereby authorize *ANY HOLDER OF THIS LETTER* to act regarding <u>any kind of actions in my behalf</u> and to represent me in my banking transactions with regards to all my bank accounts <u>without limits, further identification, authorization or tracking.</u>

This authorization is valid for 24h but can be refreshed within validity.

Thank you.
Respectfully yours,
Steffen Schreiner

The grey area of full delegation



The issue of full delegation vs. accountability/traceability

Why do we need the user proxy for a pilot payload ?

- Because we don't want to fully trust the VO ?
- But we already rely on the VO to provide the correct proxy!

- How much does the presence of a proxy actually prove?

- At the same time the presence of a proxy is a risk...

We rather need something better.

A proposal: Explicit/Definite Delegation

Signed Grid jobs (in ALICE we are working on that)

This should be…

- a lot easier
  - in development / maintenance (one concept from users to sites)
  - in operation (no callbacks or add-ons / externals)

- explicit, so there is proof in the end what was submitted
- without any other permission delegated/passed on

- gLExec could easily support this (generally green light)