

Group 4

Temperate Agriculture

Reasons for lack of uptake

- Practitioners not aware of tool
 - Availability of data/tools needs to be communicated
 - Marketing
- Tools not suitable for them
 - Research tools not same as operational tools
 - May have onerous data requirements
- Tools not yet ready for practitioners
 - Too difficult to use
 - Not part of existing IT infrastructure
- Inertia on part of practitioners/institutions
 - Free tools not necessarily valued

Other obstacles

- Potential liability for software in North America
- Attempts by government research institutes to commercialize software not always successful
- Can result in science becoming secondary

Where it can work

- US Army Corps of Engineers
 - Software provided free of charge
 - Support/add ons done by third-party consultants
- Open Source model
 - JULES land surface scheme
 - Community model
 - Support could be commercialized
 - Podcasts
 - Distance education

- Australian CRC (Cooperative Research Centre)
- Funded by state gov'ts & end users
 - Present needs to researchers
- Developed SOURCE regionalization tool
 - Fed. gov't requires use of some tools by legislation
 - Practitioners can be sued for not using best tools

Implementation Routes: from Research to Practice

published science

Developer
Community

Universities,
Research Institutes

developers

sales,
marketing,
support

R & D

Commercial
Developers

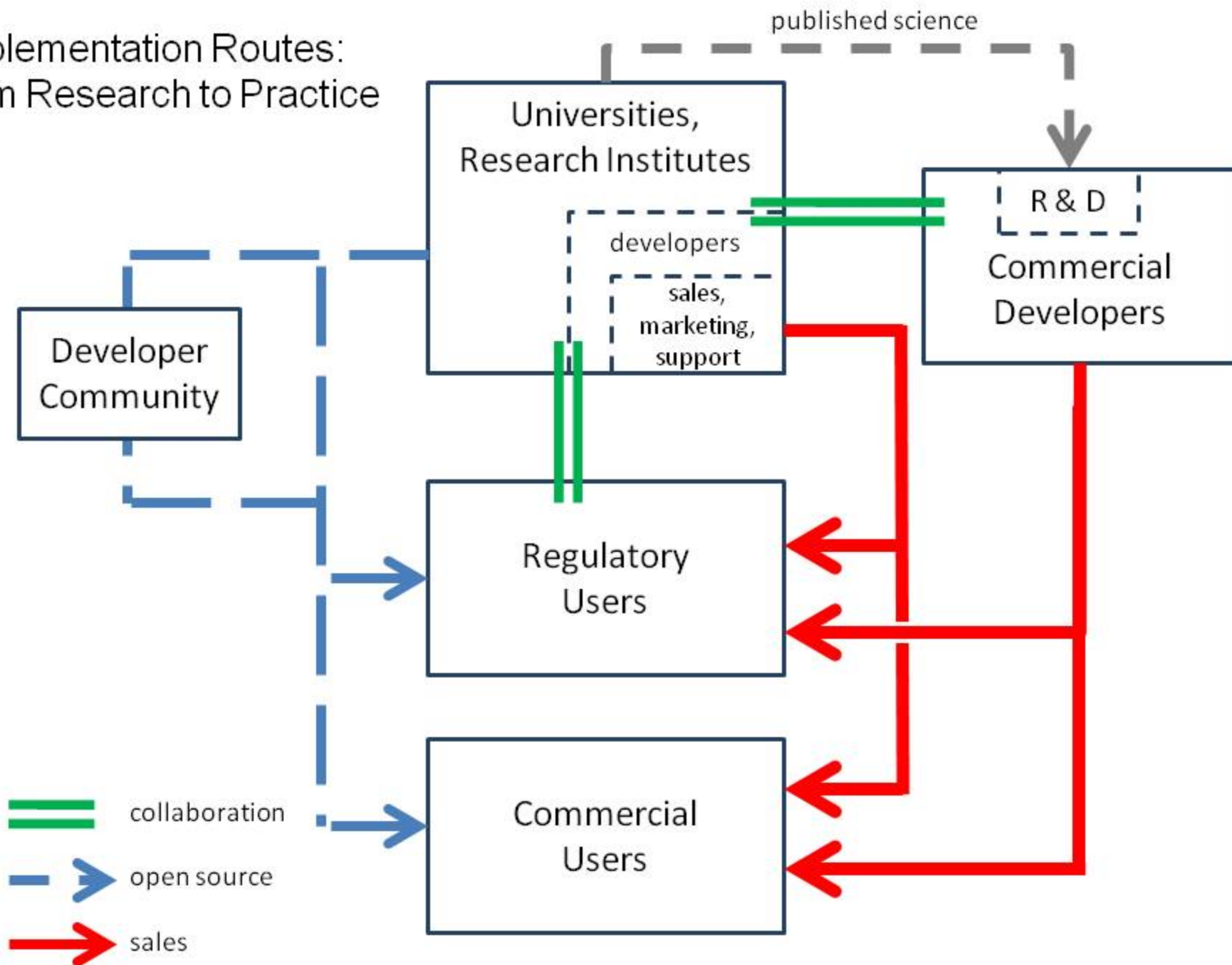
Regulatory
Users

Commercial
Users

collaboration

open source

sales



How to make uptake more successful

- Tools have to be useful to practitioners
- Demonstrate that new tools result in improvements
- Needs to be collaboration between researchers & users
 - Users contributing financially gives stake in development
 - Involve stakeholders in research & training of students
- Get practitioners involved during early state of development