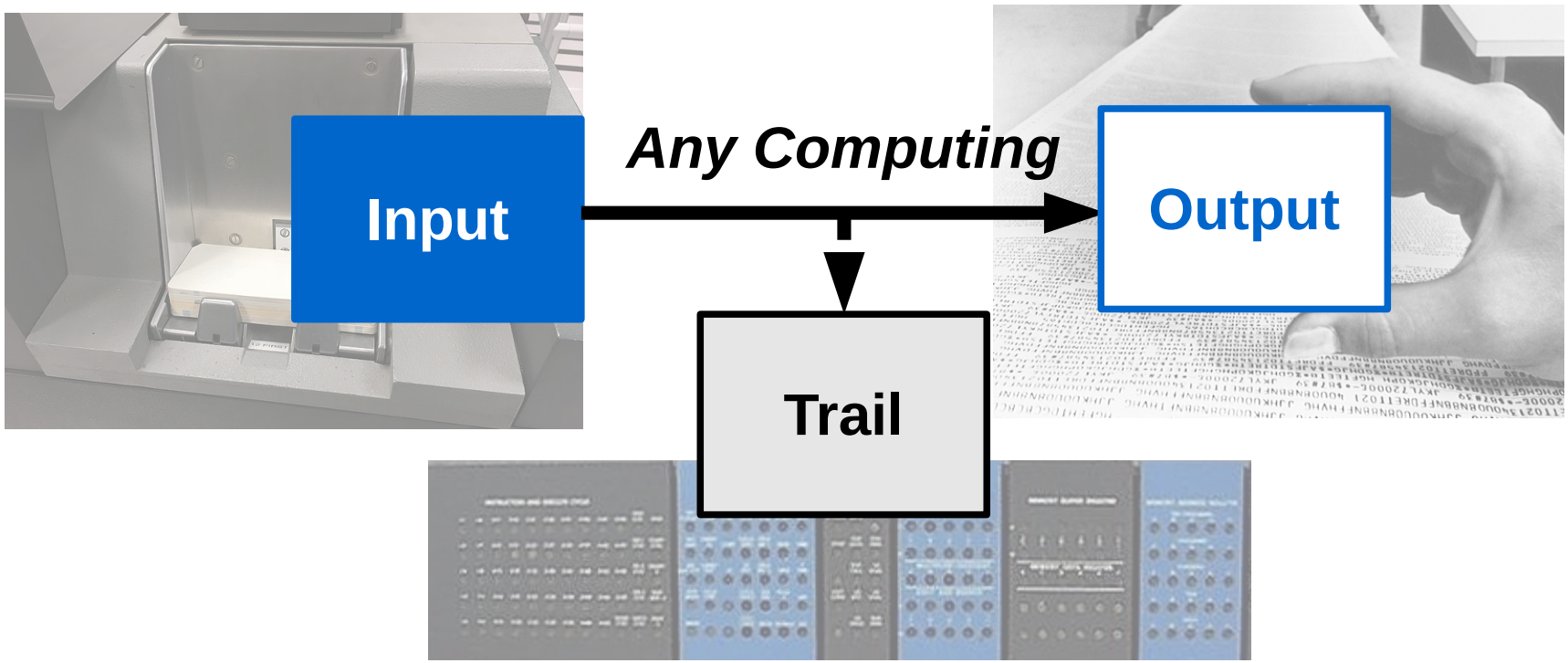
from computing to interaction,

blockchain and hypertext...

A story of men and machines

mezzònomy – May 2017

What is possible to achieve by mechanical means?



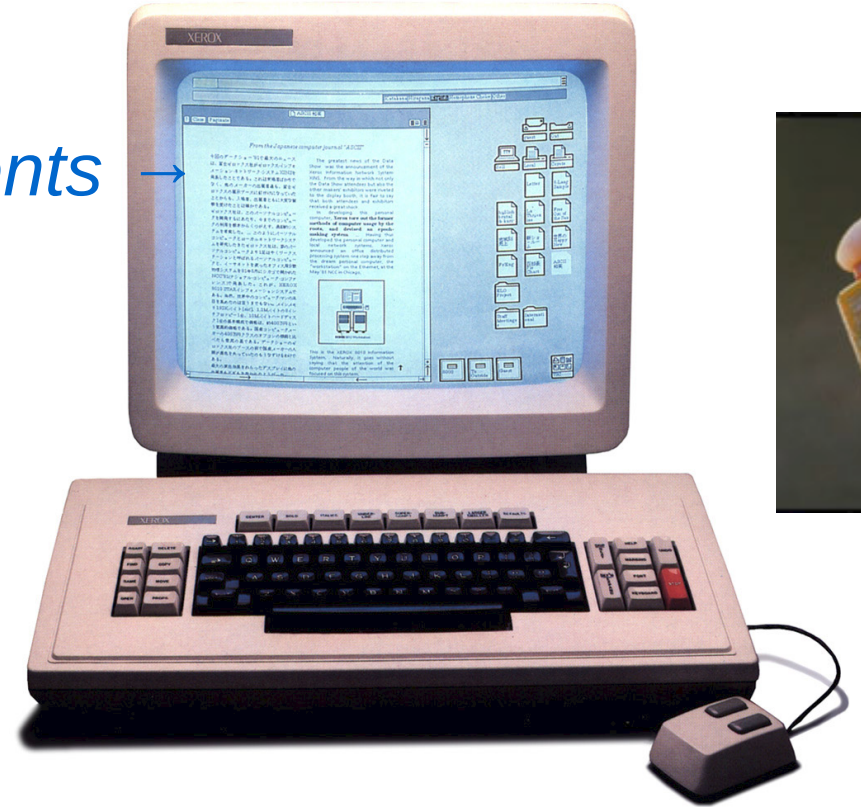
Computing ***Output*** *is a* ***function*** *of* ***Input***

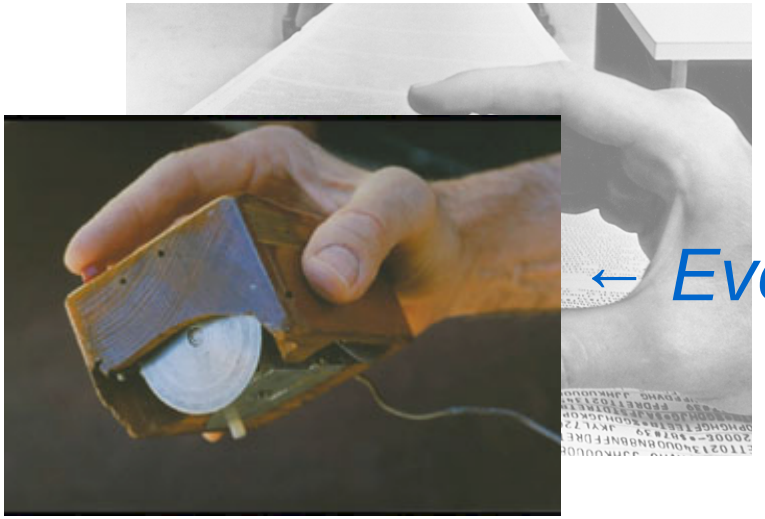
if and only if

it ***terminates*** *and has no* ***error*** *in* ***Trail***

Emergence of interaction

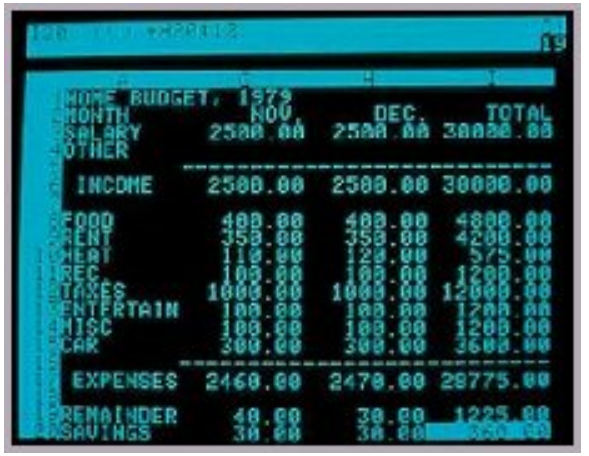
Elements →





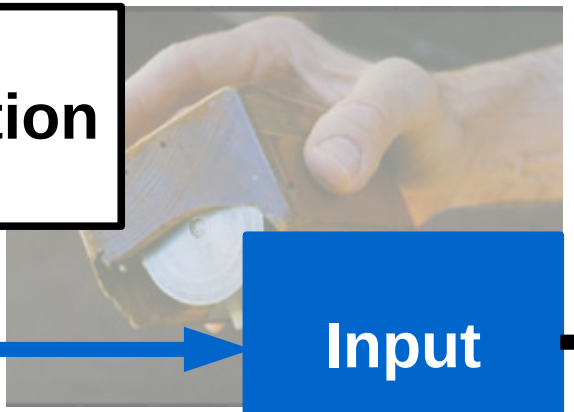
← *Events*

Spreadsheets →



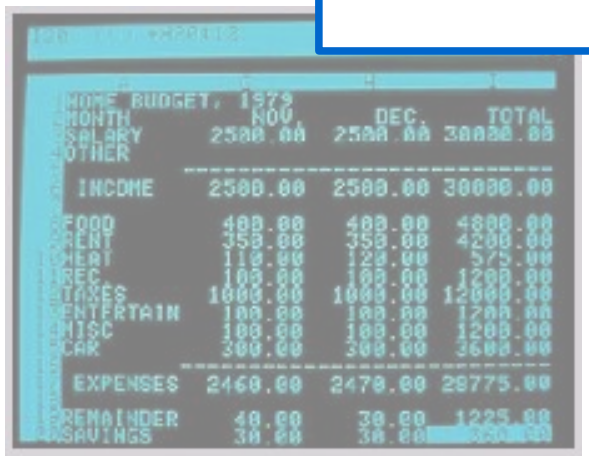
Spreadsheet interaction model

Intention



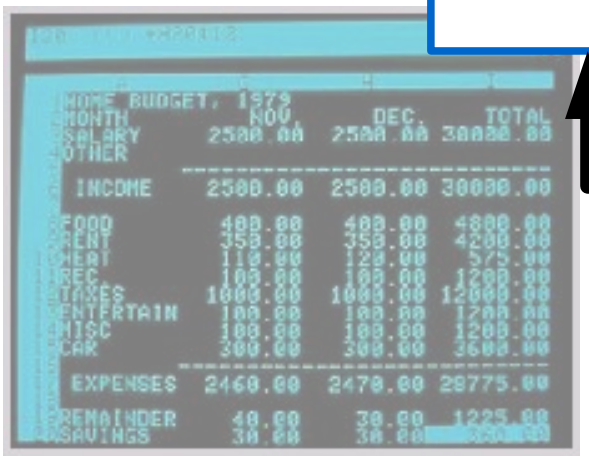
Input

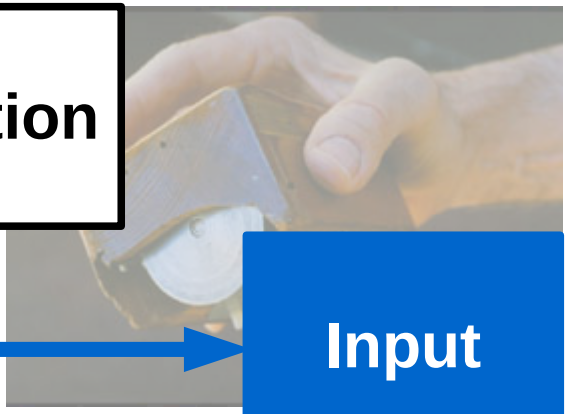
Output



Always ***terminates***
with no ***error***

Regular Interactive Model





Intention

Output

Input

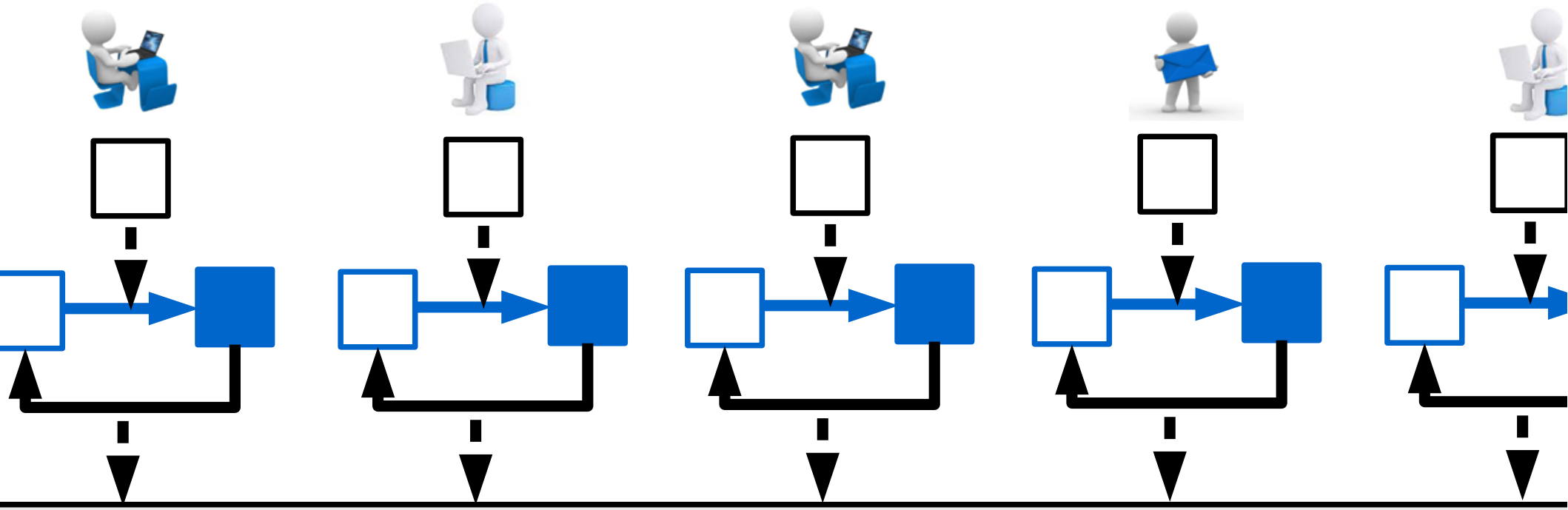
Terminating + error free = **Regular**

Trail

identifies value to human feedback

Can be replicated *ad libitum*...

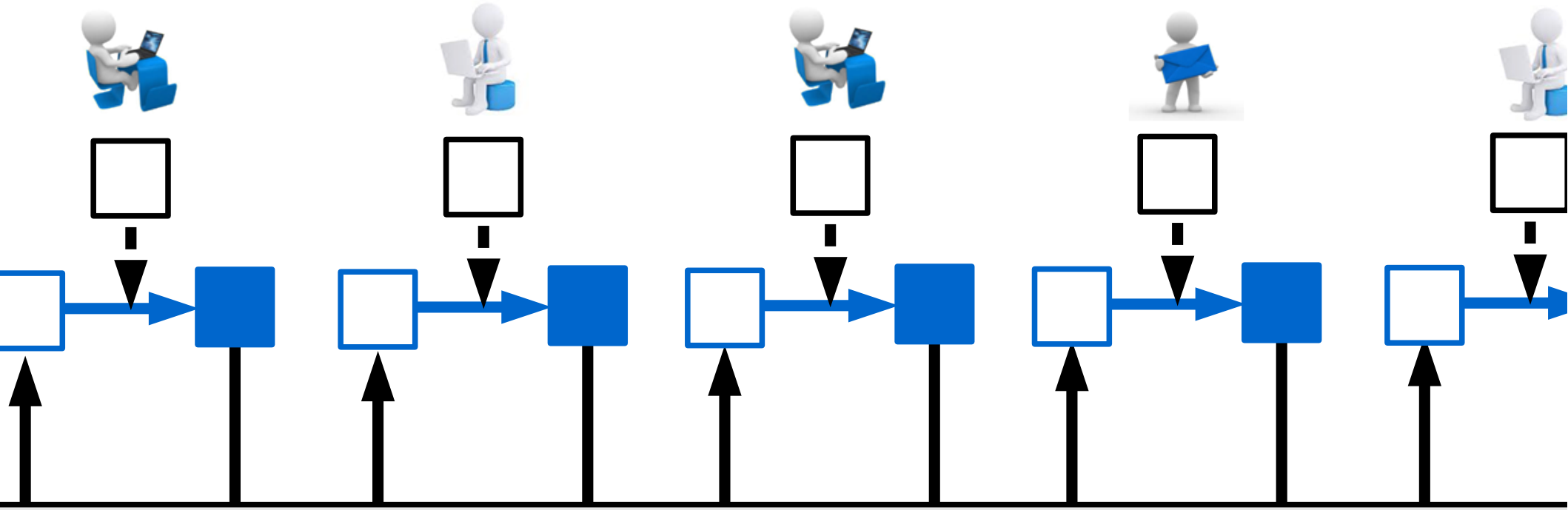
→ *with no possible interaction between users*



Trail

Regular cooperative model

→ *what if the trail was the « story » of all inputs?*



Regular Trail Computing

Regular Trail Computing

- Every **input** of any user is:
  - **Timestamped and Signed**
  - **Never replicated**
  - **Stored for eternity when validated by others → « *coins* »**
- Any **output** presented to any user :
  - Issued from a regular computing on the trail of all **inputs** with respect to his intention:

$$\textbf{Output} = \text{Regular}_{\text{User}}(\textbf{Trail})$$

  - embeds a set of **elements** to be displayed or printed
  - embeds a set of **rules** issuing next **input** from user events when displayed

Regular Interactive Hypertext

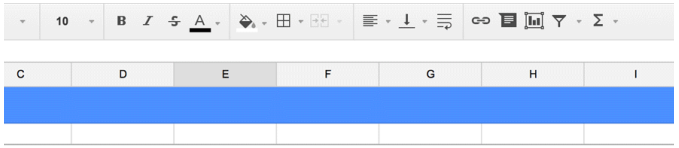
Regular
Algebra
Computing

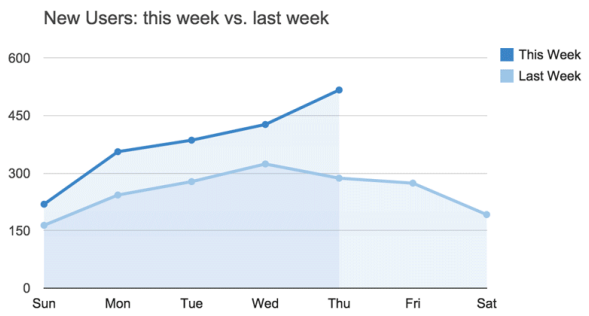
Elements

Events

Rules

Intention

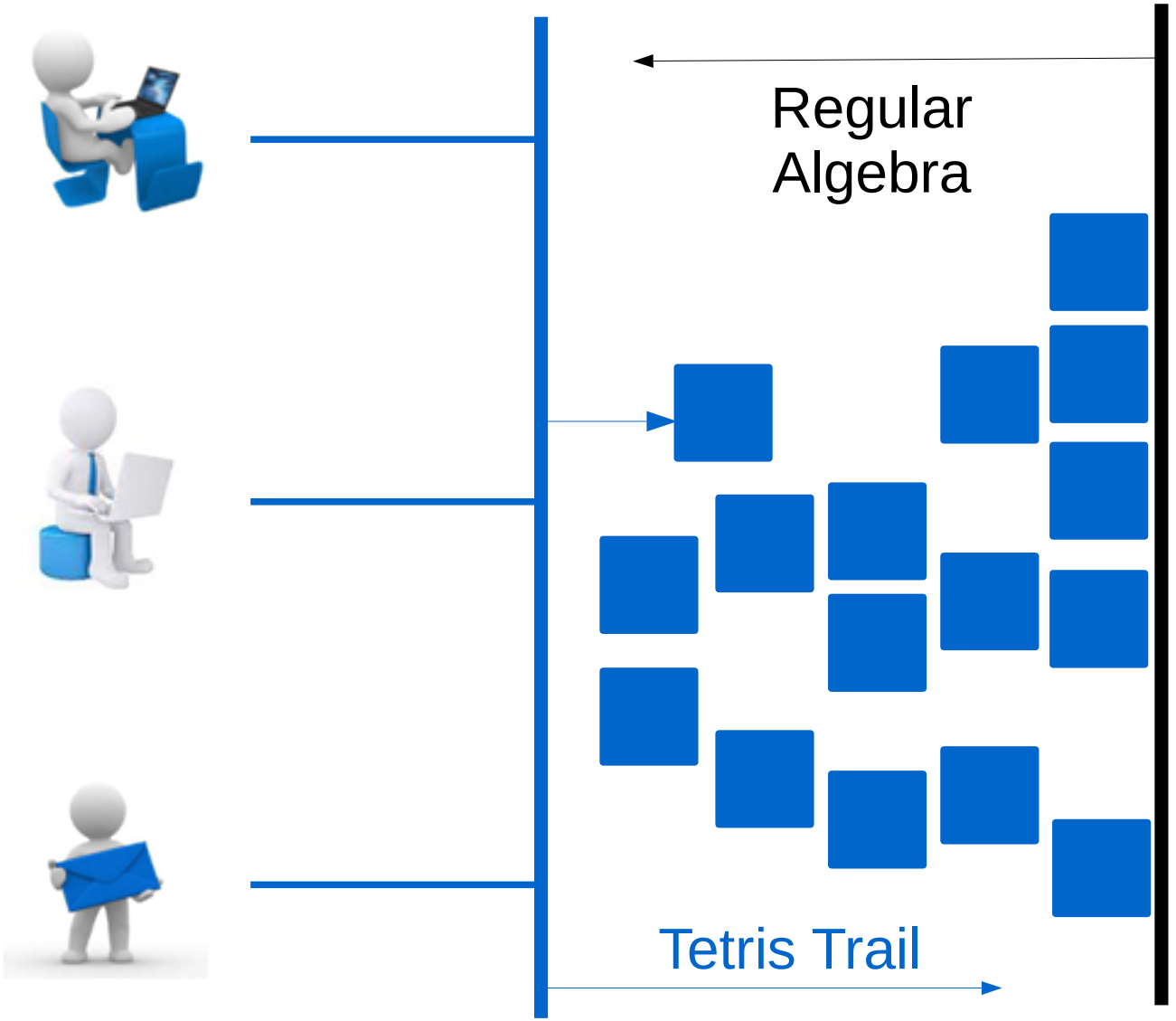




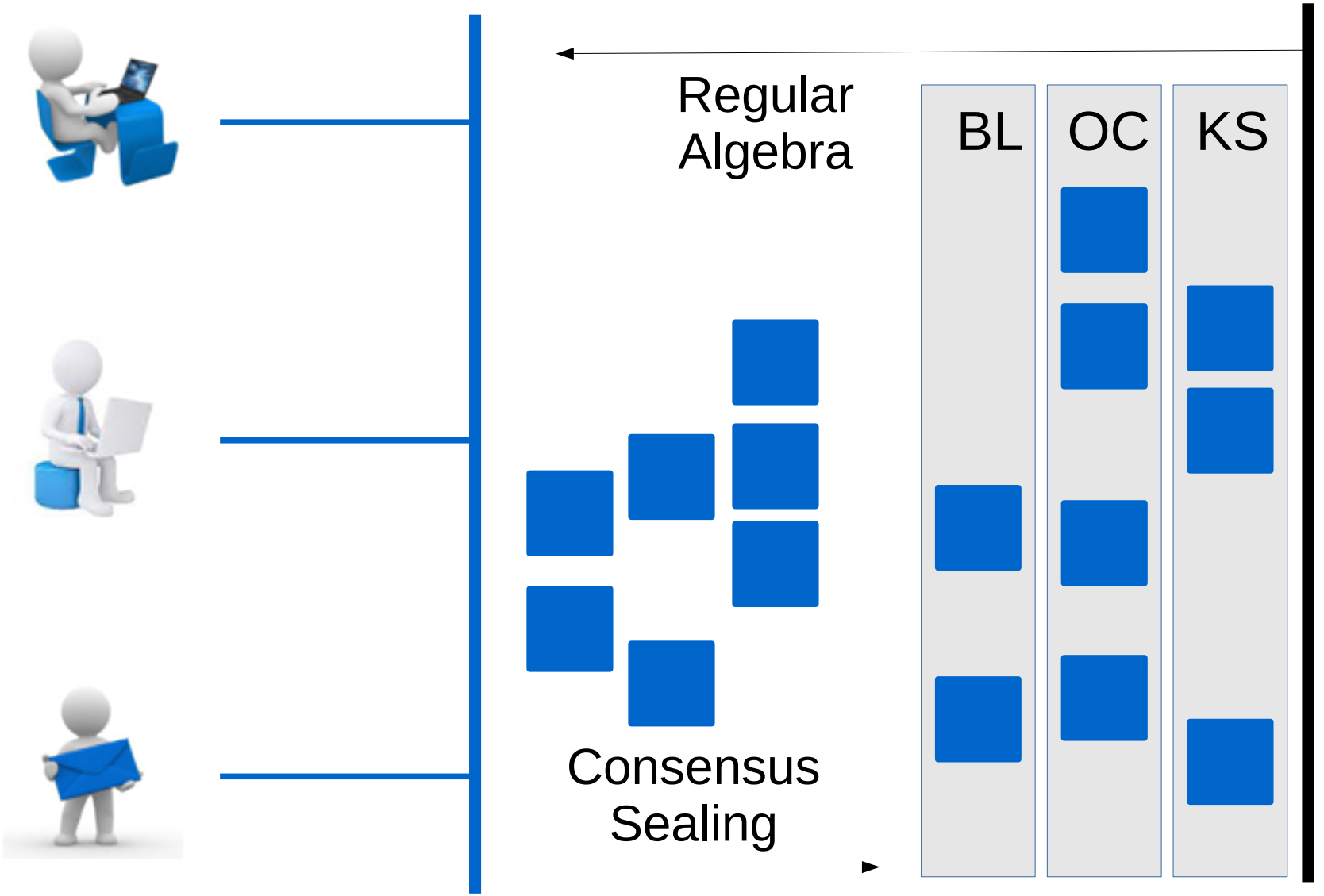
Next
Input

Tetris Trail

Regular Cooperative Hypertext



Regular Blockchain Hypertext



Regular Blockchain Hypertext

Our technology allows great numbers of users, distributed over the internet to :

- Share feedbacks on the same **spreadsheets**
- Agree on « *valuable feedbacks* » (= *coins*)
- Keep record of all coins – *no crypto-currency*
- Publish **spreadsheets** without divulging coins
- Certifiate any spreadsheet with its coins

*Method for **partial** learning **sharing** of a software application.*

*WO **2012**076477 A1*

Regular Blockchain Hypertext for **spreadsheets** and **smart-contracts** will be delivered in 2018.

Its use will be **extended to any document** in 2019 and then to any content (3D, video, sound, data lakes, ...) following the demand.