



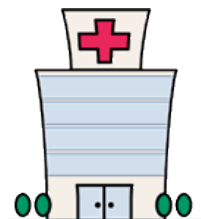
Pier 15: Breaking Good

Pier 15: Breaking Good

Combating the growing problem of counterfeit drugs



A complex problem



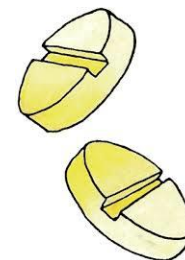
1.



2.



3.



Solution 1

Design a better, cheaper, and easier to use analytical tool for multiple use scenarios



Capillary electrophoresis

Benefits

- ✓ More efficient than other procedures
- ✓ Increased speed of analysis
- ✓ Lower solvent consumption
- ✓ Decreased size
- ✓ Lower cost



ECB: Our upgrades

Web-based wizard
training tool

Lower costs

Replacement of injection
pump with manual feed

Lower cost / size / weight;
simplified process



Automated analysis
of results

Remove need for expert
analysis

Capacity for automated
data upload to web

Increased access to /
trust in data validity



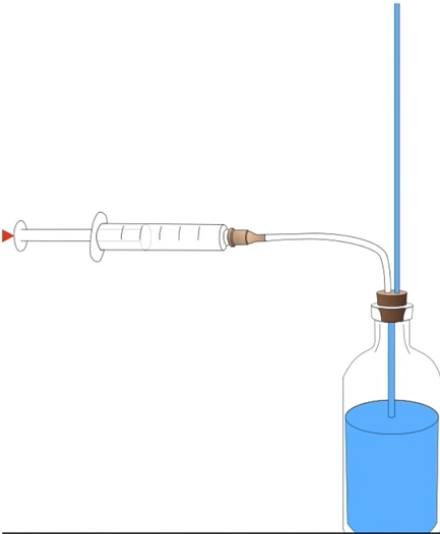
Simplified, versatile interface

Testing sequence: ×

Step 1 Step 2 Step 3 Step 4 Step 5 Step 6

Step 1: buffer

Insert a vial with a buffer and connect it. Press the syringe so it moves one bar and keep it like that for 120 seconds.



00:00 -00:22

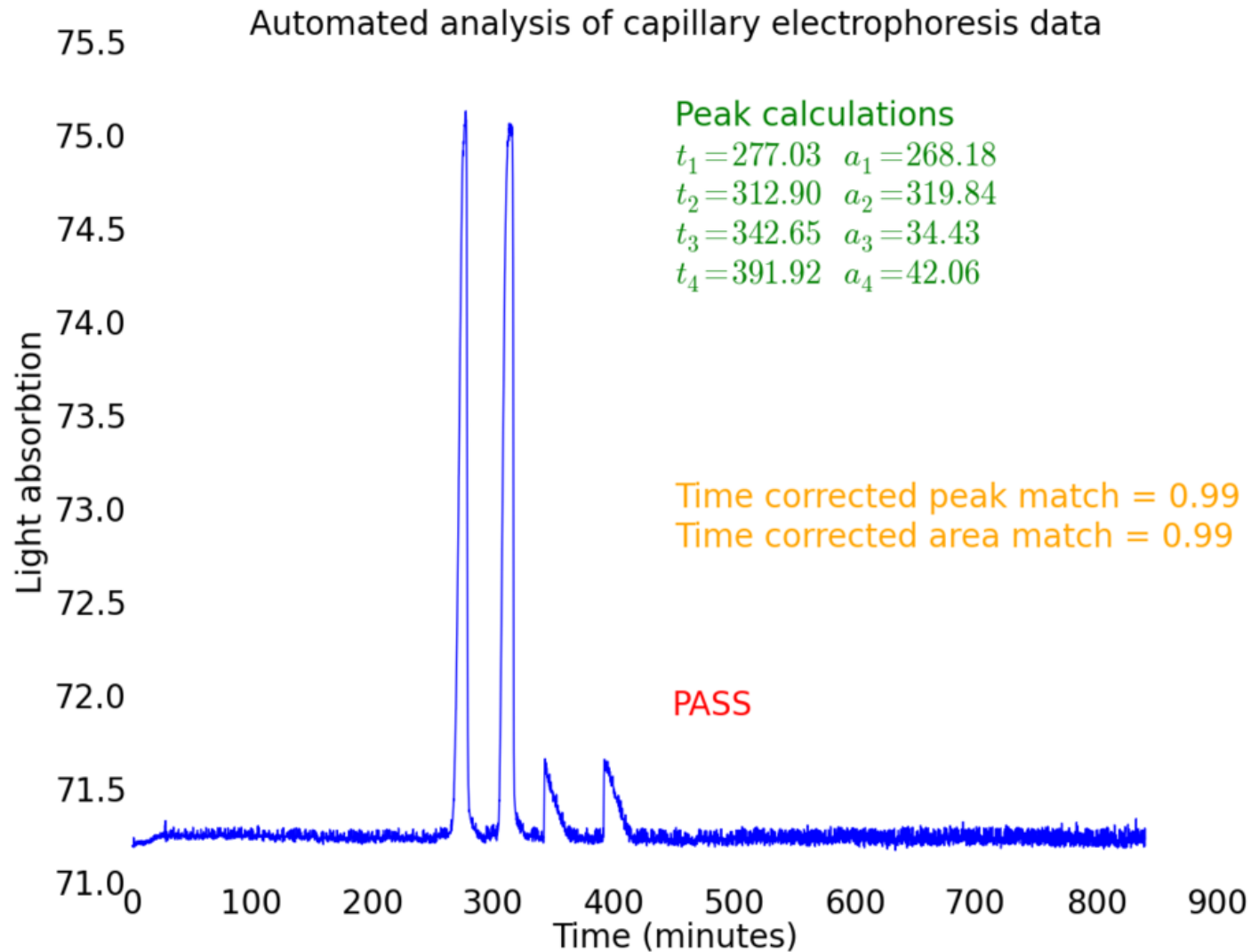
120 seconds

Start the 120 second countdown

Abort Next step



Automated analysis



Solution 2

Verify the authenticity of medicines from source to consumer



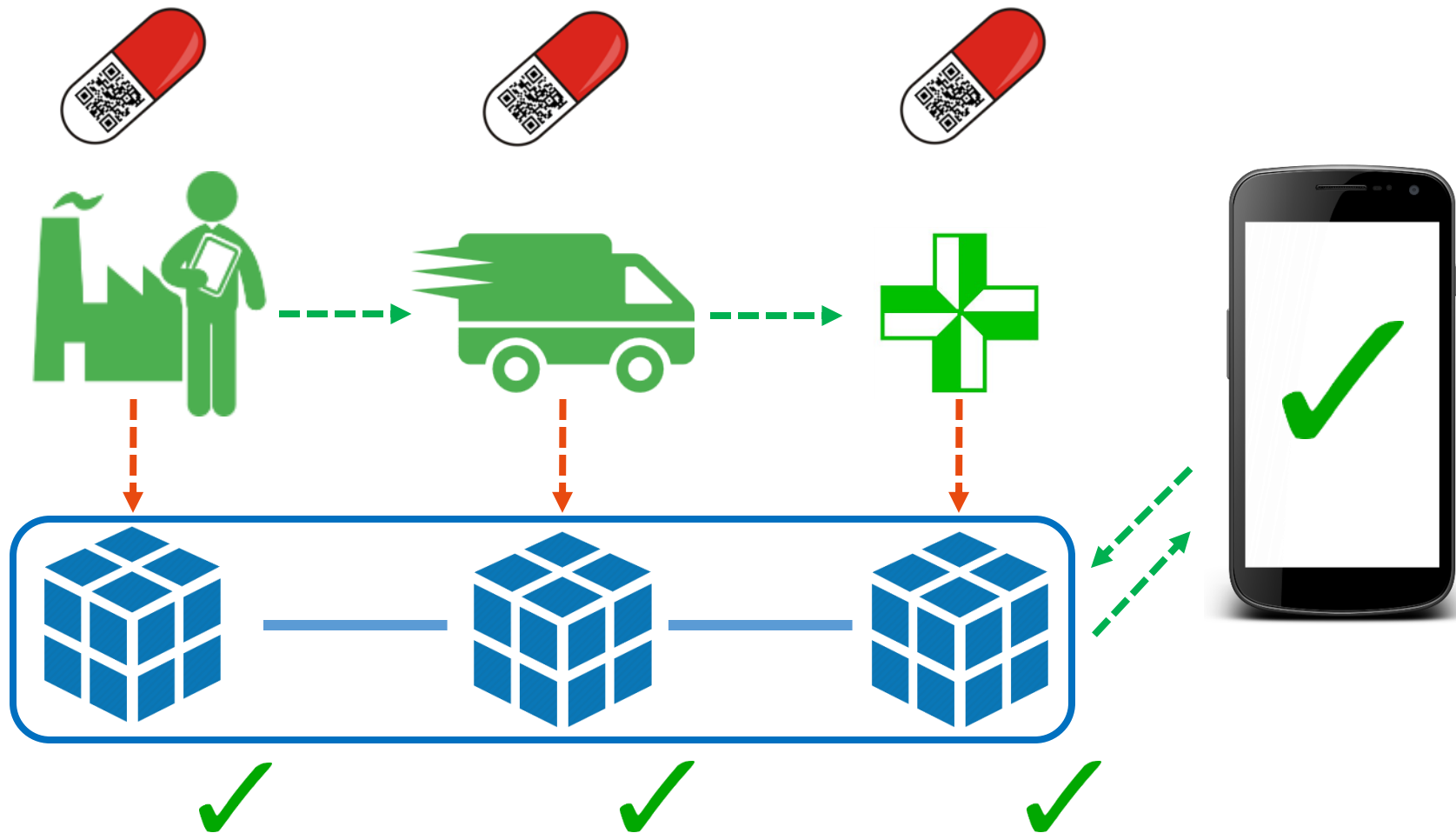
Blockchain-based verification

Benefits

- ✓ Unbreakable “trustless” verification system which lies at the core of modern cryptocurrency (Bitcoin, etc.)
- ✓ Allows any user to verify where and by whom a product was handled at critical points in the product’s history
- ✓ Trustworthy data for industry, national authorities, international organizations, retail endpoints, and the consumer



The system at a glance



1 + 2 =

Solution 3

High-confidence global drug distributed data
aggregation system



A more holistic approach to data



Target users

Consumers, national regulatory authorities, suppliers, and policymakers

Key components

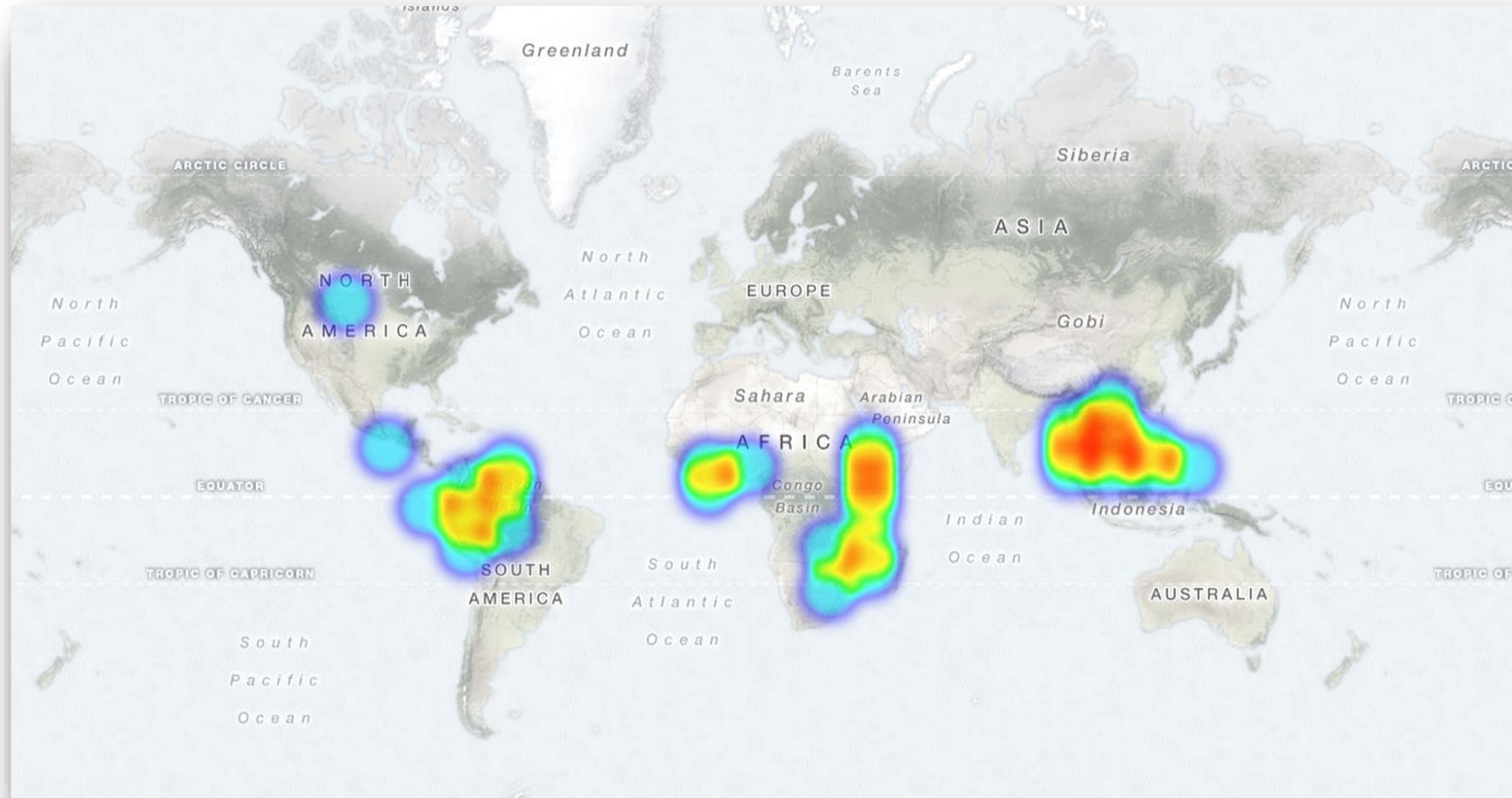
- **Multiple-source global counterfeit drug surveillance network**
- Automated aggregation of pass/fail data from two verified sources - chemical analysis (Solution 1) and blockchain verification system (Solution 2)
- Enables collection of data from multiple sources, including end-users / patients
- Provides information by medicine, location, and also information on source of the incidence report
- Flexible and customizable – responsive to organizational / individual needs



The power of reliable data



Pier 15: Breaking Good



Thank you

