# **Anti-Money Laundering Compliance** with Graph Technology

## Money Laundering Is a Big Problem

trillion/year1

# **It Funds Criminal Activity**



**Terrorism** 





Drug

trade

Creating ficticious loans,



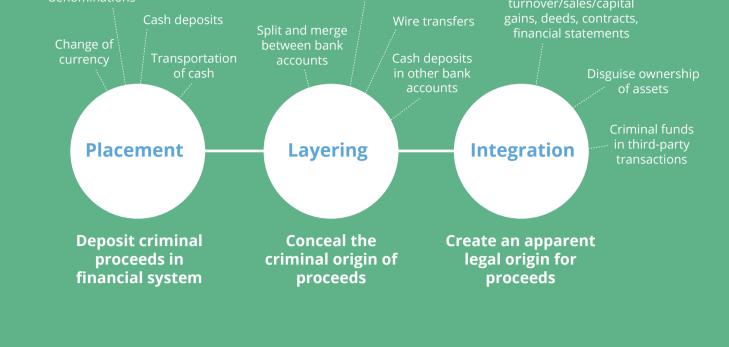
Organized

crime

Failure to report suspicious financial transactions is a crime.

### Cash Change of

**How Money Laundering Works** 



## Banks face the most regulations.

Businesses Must Report Suspected Money Laundering



**Franchises** 

Other businesses coming

under scrutiny include:



jewelers)

**Legal Compliance Example: AML4D** 

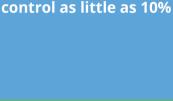
The EU's Fourth AML Directive (AML4D) requires:



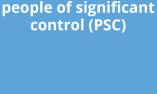




**Identifying all ultimate National registries of Monitoring credible** beneficial owners politically exposed media sources (UBO), who own or persons (PEP) and



How Graph Technology Solves Compliance Challenges



**Challenges** 



## **Expensive** \$25.3B



**Reduce false positives** 

Connected data more

accurately identifies

suspicious activity

**Analytical force** 

Flow analysis reveals

hidden patterns of

multiplier

transactions

Time & resource-

intensive

**Annual AML compliance** costs in the US alone4 **Solutions** 

Graph algorithms for flow

analysis, pathfinding and

community detection

reduce manual work

**Graph Technology Is a Force Multiplier** 

false positive detection

frees up AML analysts to investigate suspicious

**Reduce cost** 



**Traceability** 

**UBOs** 

Graphs provide clear

data lineage to identify

Fines & penalties

### **Employee force** multiplier Improved automation of

patterns that graph

Community detection makes covert agents and transactions visible

**Orville Loud** 

Politically Exposed Person (PEP)

database

## technology identifies

**Investigating Money Laundering** Circular transactions are a red flag for money laundering.

> **Manitobish Real Estate Holdings**

> > Manitobish sends \$9,430 to Cherise



**Based in country** 

on watchlist

Cherise sends \$9,411 to Clean & Green **Dry Cleaners** 

Cherise

Williams

Matching

addresses are

suspicious

### Clean money comes back to Orville Orville sends \$9,428 to Manatobish Real **Estate Holdings**

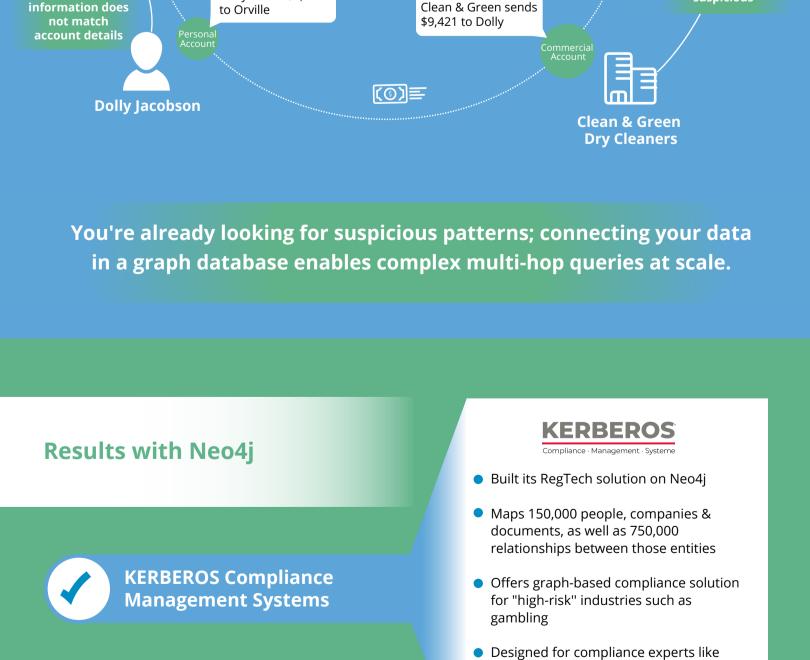
Dolly sends \$9,428

Orville gets a cash

"gift" but it's dirty

money (0)

Consumer



### 11.5 million documents, connecting data on 214,000 shell companies

than 82 countries

database

ICIJ put Panama Papers in Neo4j

fines so far; prosecution is ongoing

Sparked investigations in more

Governments worldwide have recouped \$1.2 billion in taxes and

**Global Money Transfer Company** 

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**Stop money laundering** in its tracks using Neo4j.

**LEARN MORE** 

lawyers, not technical personnel

Attaches documentation directly to

and compliance

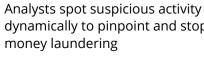
International Consortium for

**Investigative Journalism (ICIJ)** 

nodes in the graph for ease of reporting



performs AML investigations connecting 10,000+ transactions



- dynamically to pinpoint and stop money laundering Analysts follow up on tips from law
- enforcement in real time Compliance is now a competitive edge

neo4j.com

neo41

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