Context is about filling in your knowledge gaps that you need, to solve your problems.

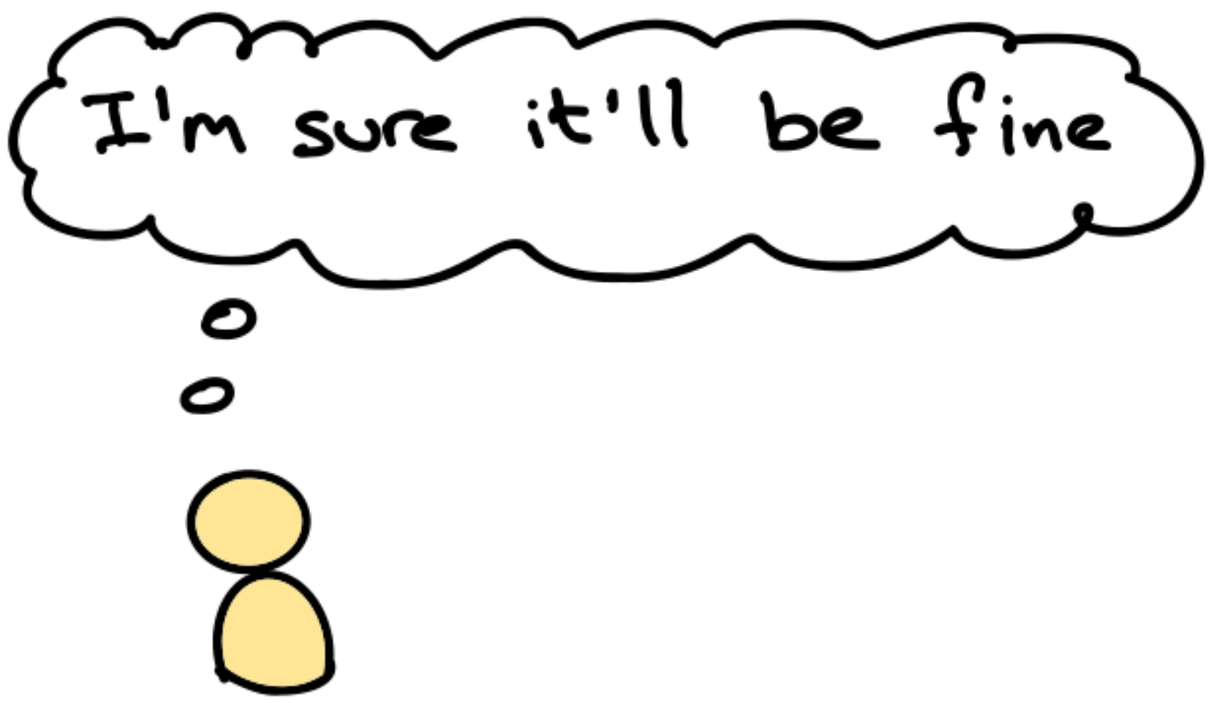
Context Graphs require a choice:

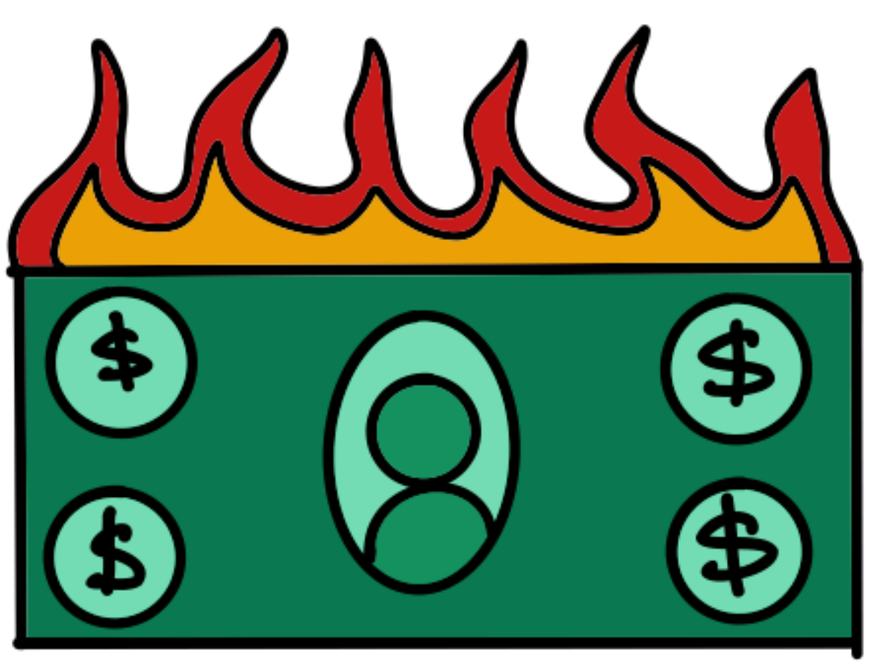
Look at your risk → Use a checklist (FFM)

- Data
- Meaning
- Structure
- Context

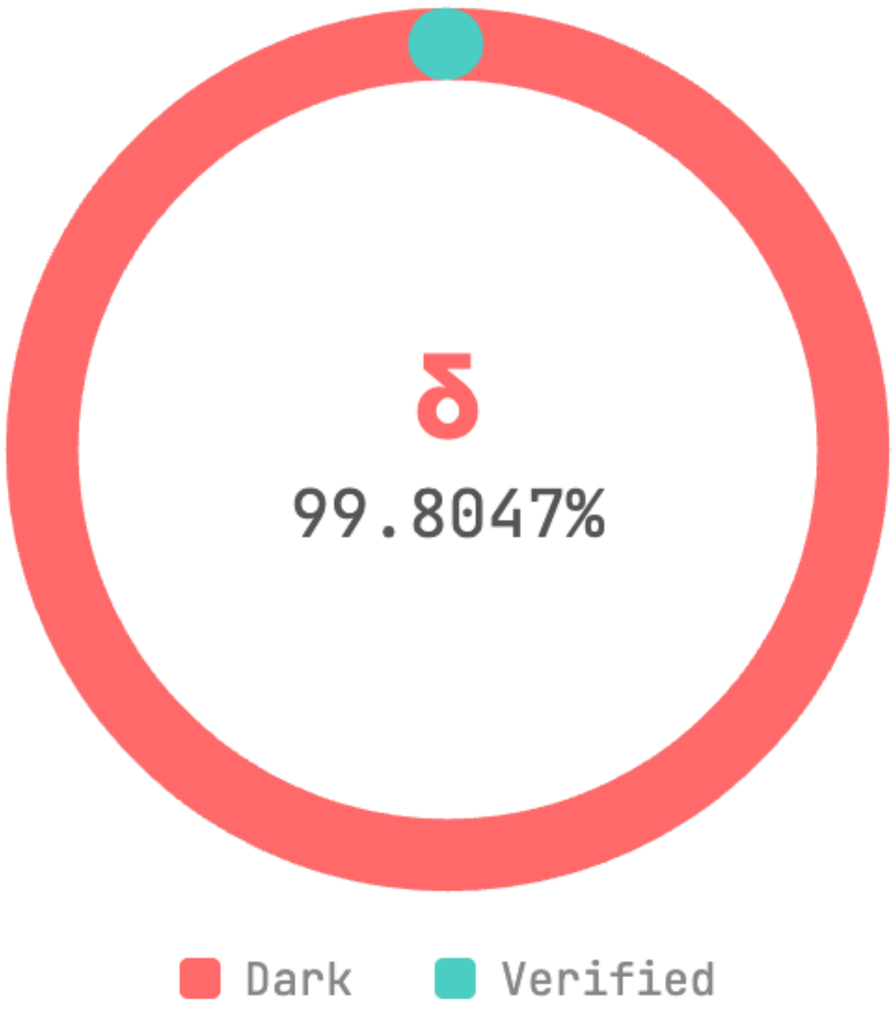
-or-

Ignore risk now → Find out later





Ron Itelman
April 2026



VARIABLES (M)

3

FACETS (N=3M)

9

VERIFIED (R)

0

|Ω| CONFIGS

512

2^n

|Bᵣ| VERIFIED

1

Hamming ball

MARGINAL RETURN PER FACET

⚠ Dark uncertainty dominates

With 3 variables and 0 verified facets, 99.8047% of the configuration space is unreachable by any within-boundary diagnostic. The system is operating somewhere in a space of 512 configurations but can only confirm 1 of them.

MEA STR CON

v1 Date M S C ×

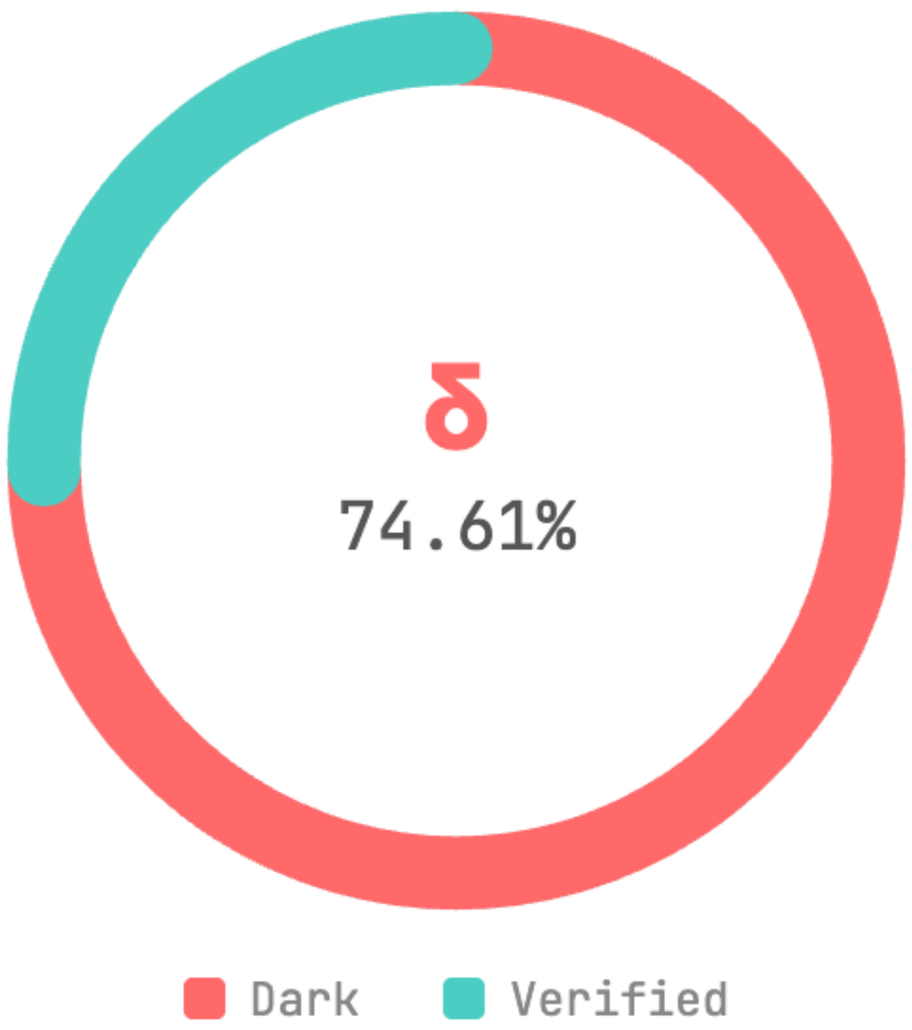
Meaning Transaction execution date

Structure DD/MM/YYYY

Context Use for Singapore Trading Venue

v2 Oil Price M S C ×

v3 Location M S C ×



VARIABLES (M)
3

FACETS (N=3M)
9

VERIFIED (R)
3

|Ω| CONFIGS
512
2^n

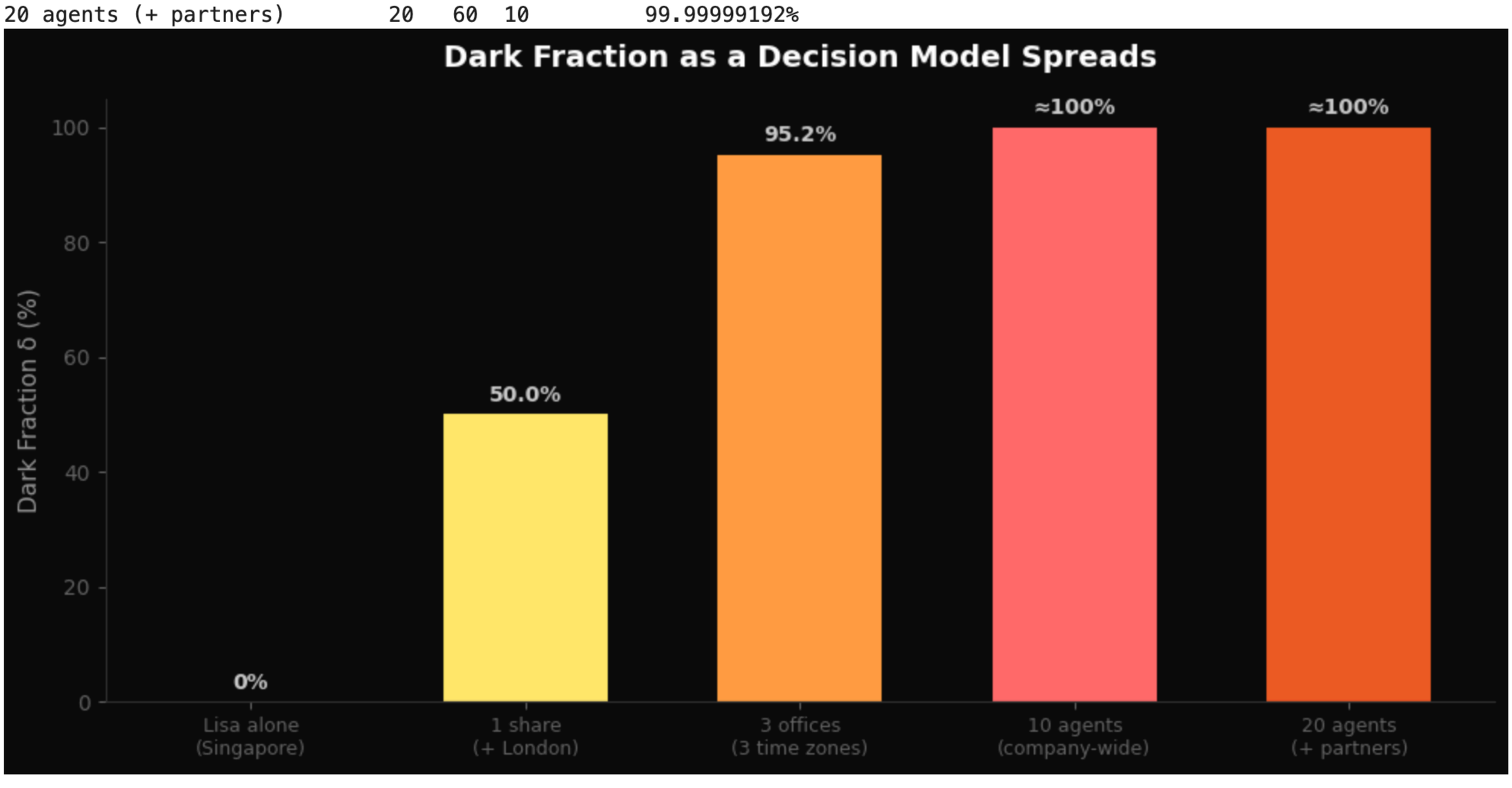
|Bᵣ| VERIFIED
130
Hamming ball

MARGINAL RETURN PER FACET

The most danger is when output from decision models are then used by other systems in feedback loops used by decision models without verifying dark uncertainty at the boundary.

This is precisely what AI Agents do when interacting across system boundaries. They make assumptions and users have no way to know.

```
Stage                              m    n   r                    δ
------------------------------------------------------------------
Lisa alone (Singapore)             3    9   9               0.0000%
1 share (+ London)                 3    9   4              50.0000%
3 offices (3 time zones)           6   18   5              95.1874%
10 agents (company-wide)          10   30   5              99.9838%
20 agents (+ partners)            20   60  10            99.99999192%
```



You may not see or notice a problem, but the cost of ignoring this problem is going to pile up over time and become self-reinforcing.

For example: MM/DD or DD/MM for any international company is a nightmare if AI is synthesizing data globally. And this problem happens the first 12 days of every month → propagating silently!

"05/04/2026 in NY = May 4"

"05/04/2026 in London = April 5"