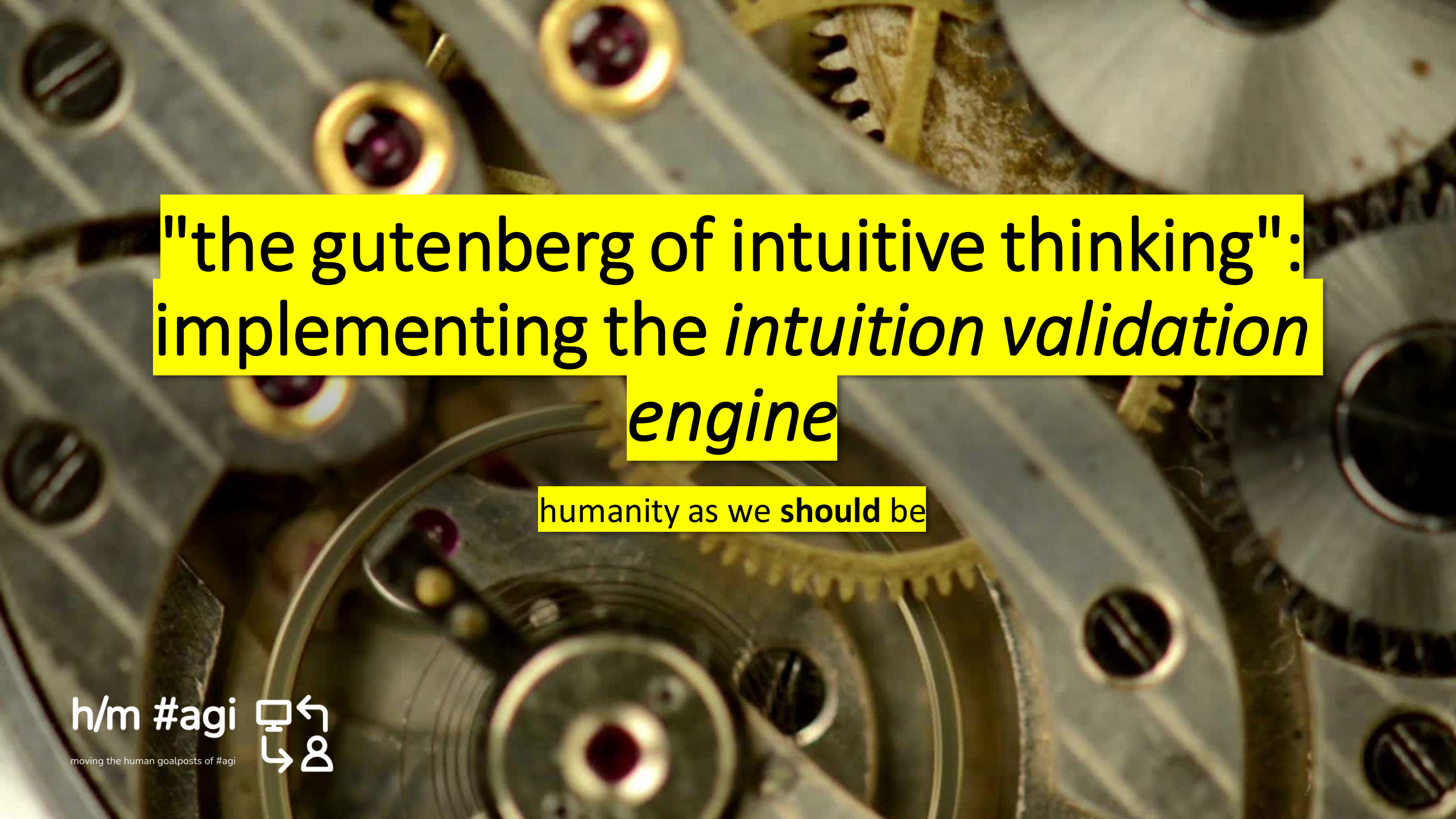

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

humanity as we **should** be

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"Stop leaving half of global decision-making processes at the mercy *not* of intuition but of an UNVALIDATED, NEVER ENHANCED nor UPSKILLED, usually UNDERVALUED, and certainly GENDER-DISRESPECTFUL treatment of what has been a prime and – to date – shamefully untamed way for all human beings to witness and share their truths."

(Ask #2 to traditional data science …)

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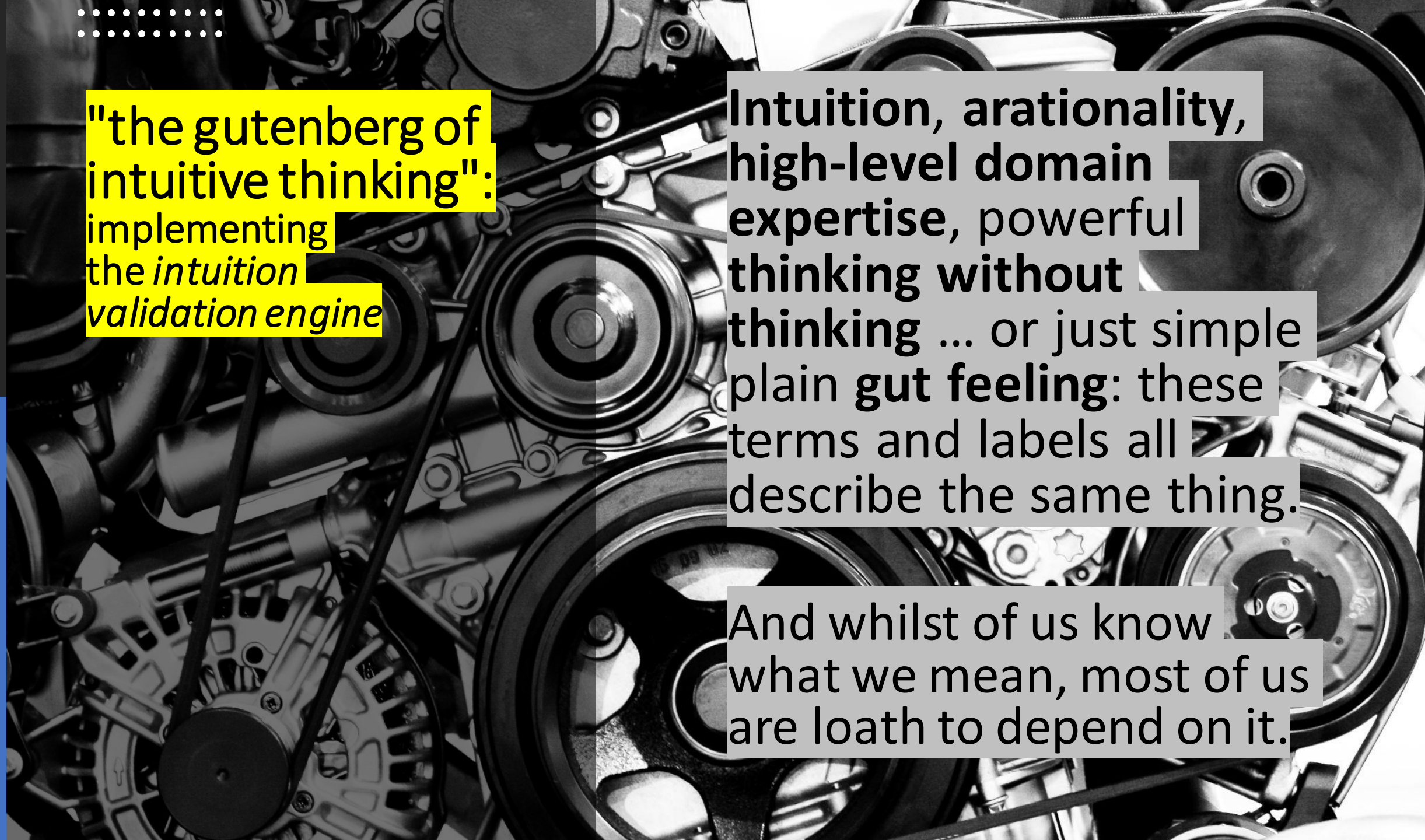
Biography

Mil Williams has a BA in Film & Literature from Warwick University, UK; a University Master in Publishing from Salamanca University, Spain; and a Master in International Criminal Justice from Liverpool John Moores University, UK.

His heroes invented the printing-press, failed at the last hurdle against the Catholic Church, and were right about the nature of the future shape of the Irish Republic: that is, how it would show the rest of the world all human beings must be treated, despite its own awful and profound history of oppression by people from his homeland.

He is interested primarily in repurposing all kinds of technologies, so that instead of making humans irrelevant in the workplace we achieve a common goal of ensuring we all become enhanced, upskilled, more involved & engaged, and finally more important in a collective future-present we are all both allowed *and* encouraged to shape.

humanity as we **should** be



"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

Intuition, **arationality**, **high-level domain expertise**, powerful **thinking without thinking** … or just simple plain **gut feeling**: these terms and labels all describe the same thing.

And whilst of us know what we mean, most of us are loath to depend on it.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

We've seen it go wrong. All of us have. One way or another.

Try tweeting *that* – you'll soon see what I mean.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

No one in mission-critical operations will choose intuition over traditional number-crunching.

Intuition delivers fail whales.

Number-crunching, meantime, delivers.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

No data-focused corporation has ever denied the impact of global climate change.

No citizen's gut feeling has ever got global warming right.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

No mother has ever *sensed* their baby needed help in the face of professional incomprehension.

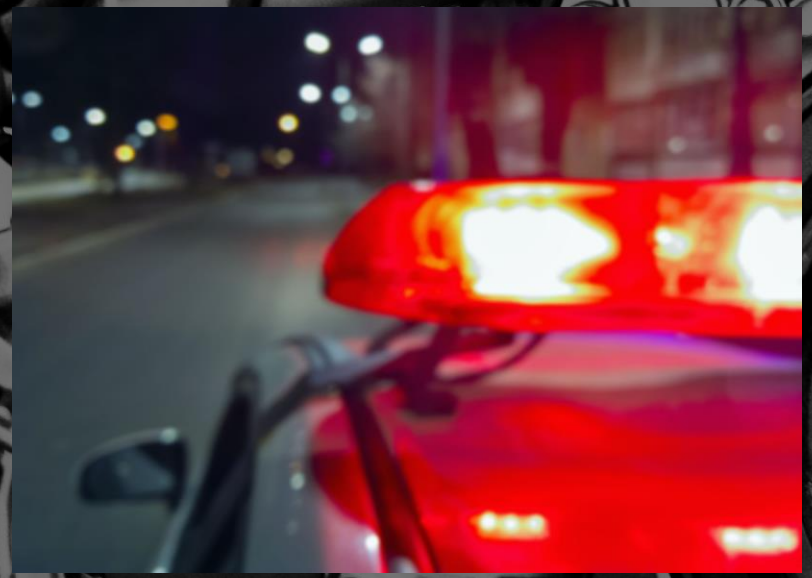
No doctor ever got a diagnosis wrong after a battery of tests.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

In truth, most data scientists are men, and will ask for what they understand to be data.

And most mothers are women, and know exactly how to read their baby like no one else.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*



Conclusions we *should* draw instead of conclusions we *prefer* to draw?

If people such as ...

- mothers and
- security agents and
- law enforcers and
- educationalists and
- lawyers in court and
- children in the schoolyard ...

know when they know what they know ... why WON'T data science learn how to validate *their* thinking too?

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

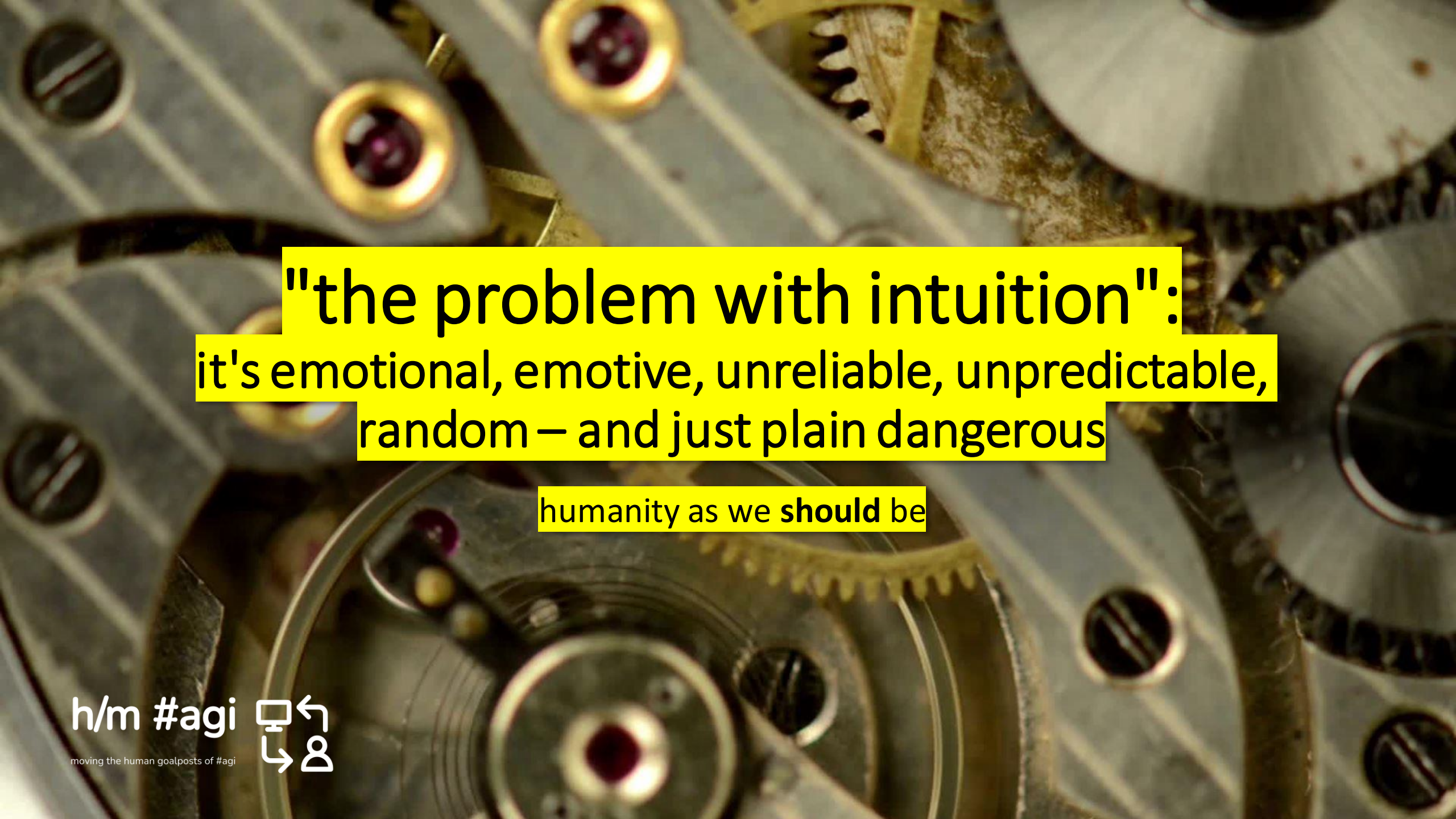
Conclusions we *should* draw instead of conclusions we *prefer* to draw?

If all these people ..

- mothers and
- security agents and
- law enforcers and
- educationalists and
- lawyers in court and
- children in the schoolyard ... and then
- socialworkers and people who work in mental health and autism, and the wider caring professions ...

know what they know ...

what IS the problem with seeing intuition as just another DATASET to be duly VALIDATED?


"the problem with intuition":
it's emotional, emotive, unreliable, unpredictable, random – and just plain dangerous
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"whilst acting *only* on traditional datasets delivers all these goodies":
pandemic, ukraine, fuel-dependency, geopolitical instability, global terrorism, loopholes & zemiology, creatively criminal organised crime ... and then there's trump, brexit, ppe corruption, middle-eastern bribery ... need i go on?
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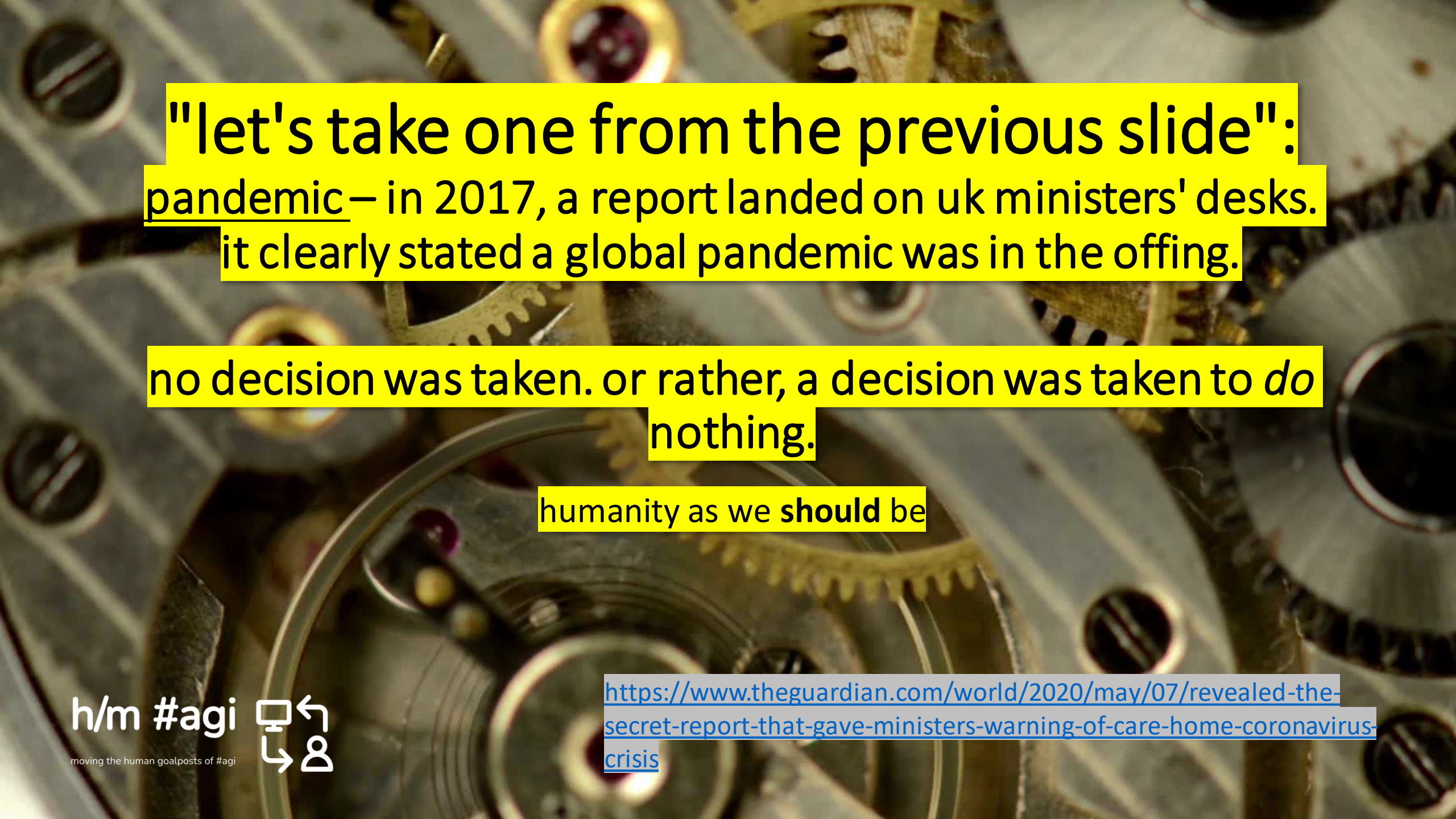

"let's take one from the previous slide":

pandemic – in 2017, a report landed on uk ministers' desks.
it clearly stated a global pandemic was in the offing.

no decision was taken. or rather, a decision was taken to *do* nothing.

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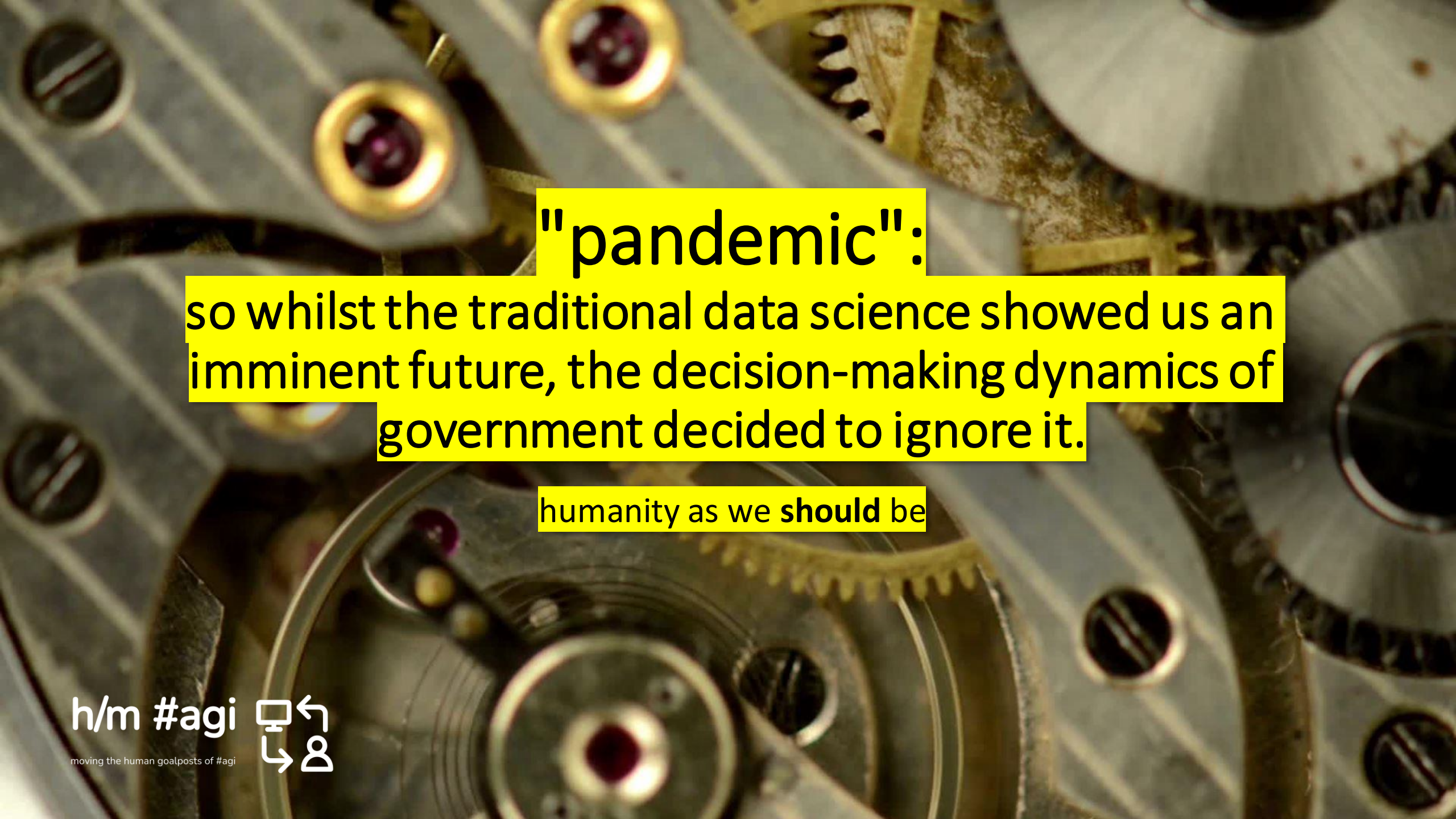
https://www.theguardian.com/world/2020/may/07/revealed-the-secret-report-that-gave-ministers-warning-of-care-home-coronavirus-crisis


"pandemic":
so whilst the traditional data science showed us an imminent future, the decision-making dynamics of government decided to ignore it.
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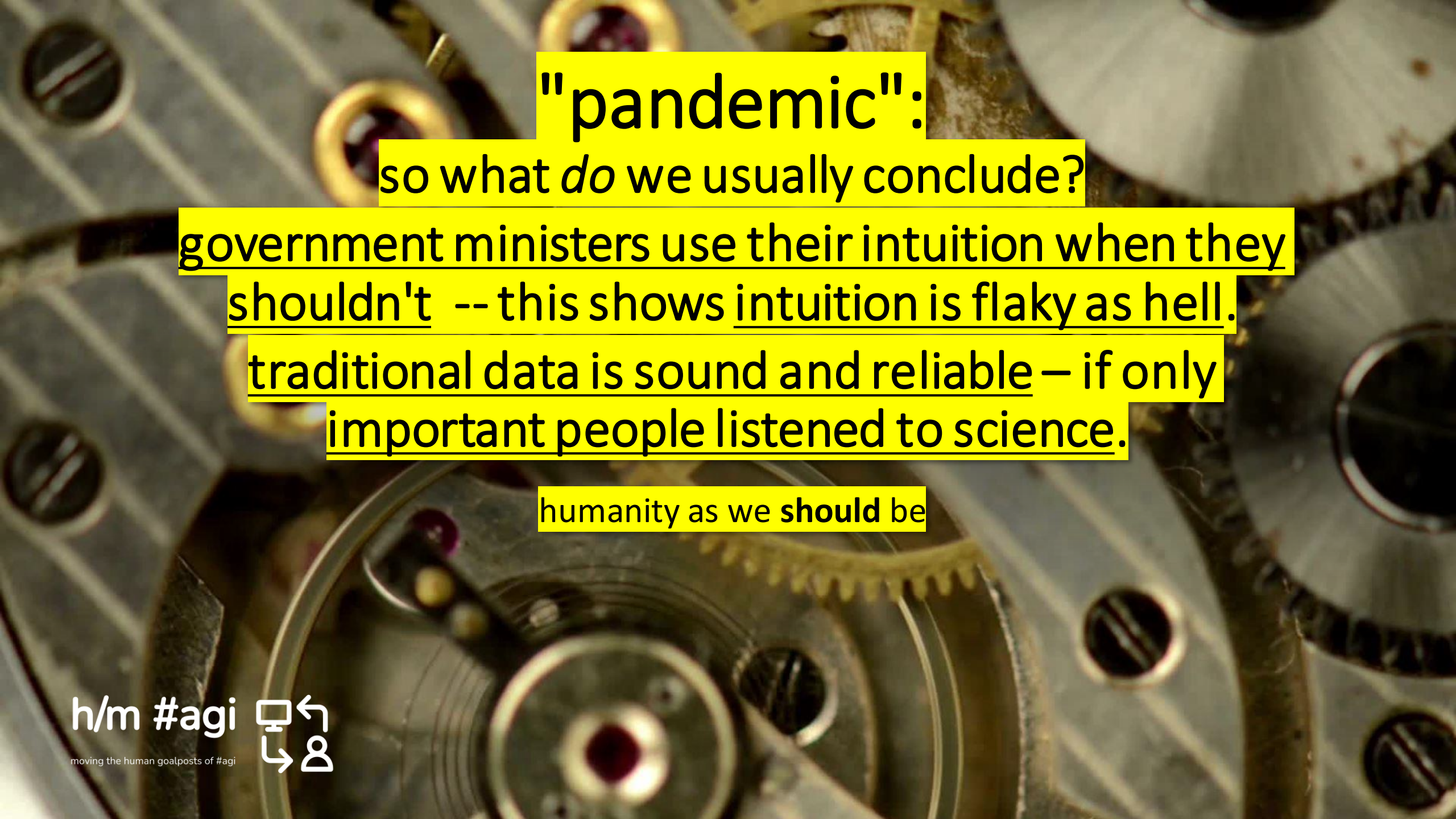
"pandemic":
so what *do* we usually conclude?
government ministers use their intuition when they shouldn't -- this shows intuition is flaky as hell.
traditional data is sound and reliable – if only important people listened to science.
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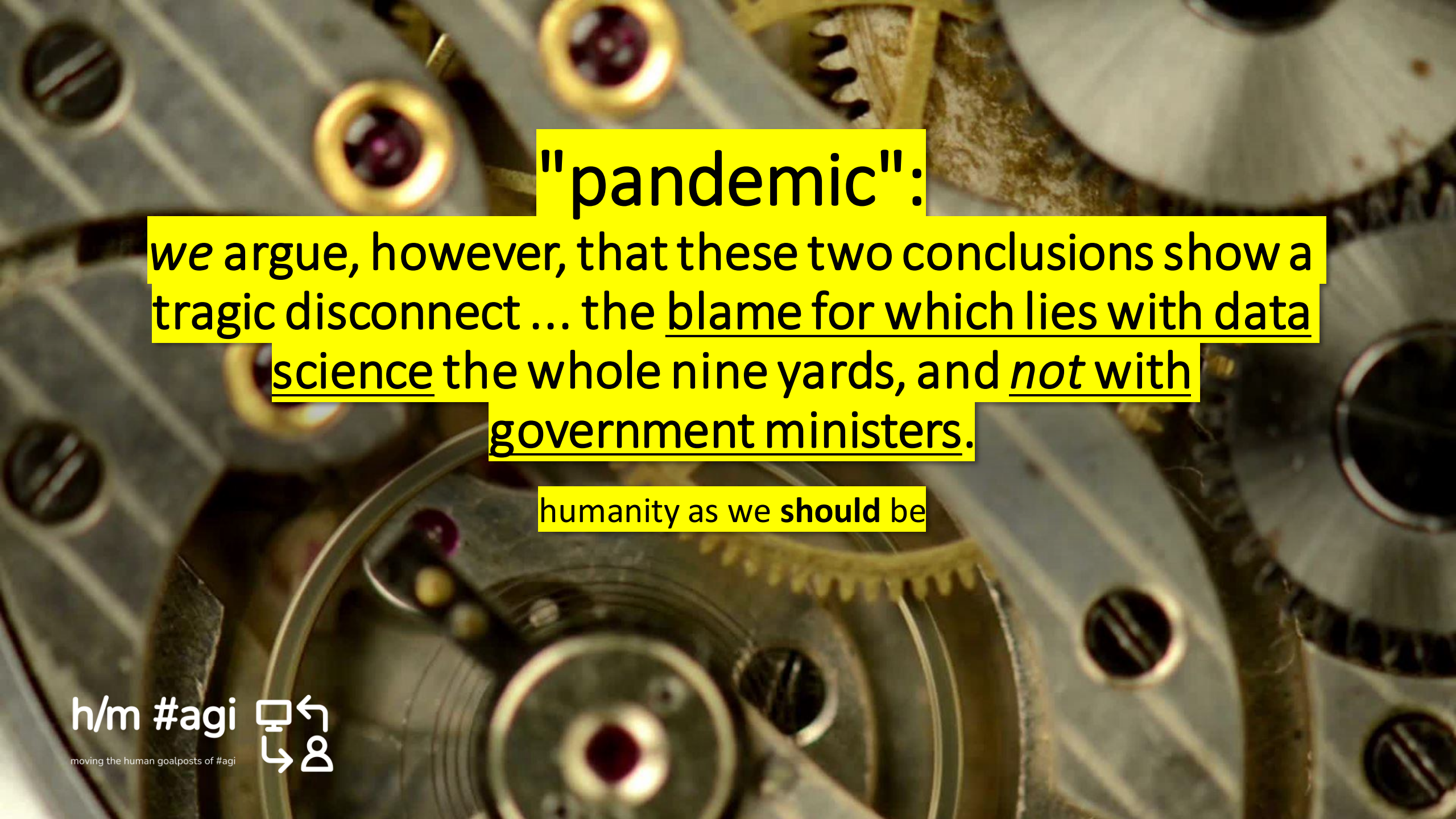
"pandemic":
we argue, however, that these two conclusions show a tragic disconnect ... the blame for which lies with data science the whole nine yards, and *not* with government ministers.
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"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

Why do we say the assertion on the previous slide?

Data science chooses to believe intuition is irrational and unreliable, as well as primarily emotional.

It therefore sees no point in validating it – neither from the inside-out as we would like (conflating admin and user into one single role), nor even on its own terms, from its own admin versus user architectures and hierarchies.

Not even in the latter case. Intuition and associated are – for data science – necessarily, inevitably flaky.

Not to be touched. Never to find their robust validation. Ever.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

Since data scientists – mainly men, too (as in the wider tech, IT and AI sectors) – don't value *other* people's intuition, they don't spend time or money creating related validation tools for these other people.

They could have done so long ago.

But they simply won't.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

They prefer to argue traditional datasets are enough; and traditional approaches as well, which then serve to maximise their capacity to optimise their own power as a profession.

They NEVER see the data subject as a "subject matter expert" with primary agency and ownership of both data *and* ALL insights that emerge from data-science process.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

Once the insights are generated, the data subject must by obligation lose all control over the destiny and utility of the same.

"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

Now it may work to a certain degree on some key occasions:

Thankfully, since 9/11, and whilst mass terrorism has repeated on terrible occasions, these occasions have been limited in comparison. To date, the post-9/11 period is a success of traditional data science.

"but these are NOT successes of traditional data science":
pandemic, ukraine, fuel-dependency, geopolitical instability, global terrorism, loopholes & zemiology, creatively criminal organised crime ... and then there's trump, brexit, ppe corruption, middle-eastern bribery ... need i go on?
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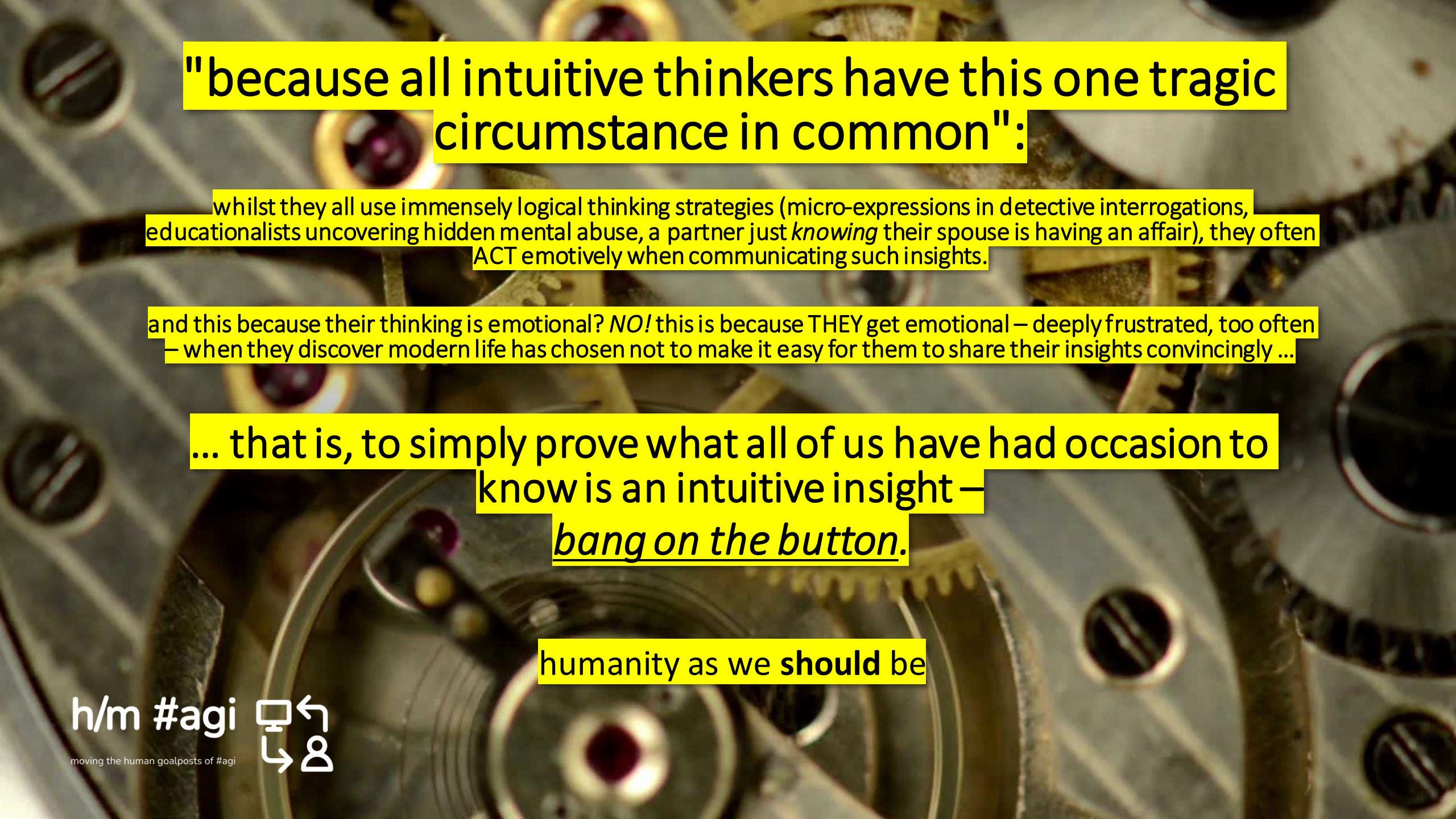
"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

Our ask – then – to traditional data science?

When it's time to present evidence-based research to decision- and policy-makers, carry on: do as you do.

But when it's time for these key citizens in society to deepen and deliver on their mission-critical decision-making process, forget your male prejudices please … and just believe intuition, alongside all related thinking, does actually deserve … once and for all … its own validation tools.



"because all intuitive thinkers have this one tragic circumstance in common":

whilst they all use immensely logical thinking strategies (micro-expressions in detective interrogations, educationalists uncovering hidden mental abuse, a partner just *knowing* their spouse is having an affair), they often ACT emotively when communicating such insights.

and this because their thinking is emotional? *NO!* this is because THEY get emotional – deeply frustrated, too often – when they discover modern life has chosen not to make it easy for them to share their insights convincingly …

… that is, to simply prove what all of us have had occasion to know is an intuitive insight – *bang on the button*.

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"the gutenberg of intuitive thinking": implementing the *intuition validation engine*

Back to our ask to traditional data science:

Please consider, once and for all, that we should complete the circle of all global decision-making processes:

1. Carry on as you were: the first half of evidencing scientific-like truth, where not assailed by bias (which does occasionally happen – but it also happens elsewhere), clearly works in many areas of Western liberal democracy.

2. Stop leaving half of global decision-making processes at the mercy *not* of intuition but of an UNVALIDATED, NEVER ENHANCED nor UPSKILLED, usually UNDERVALUED, and certainly GENDER-DISRESPECTFUL treatment of what has been a prime and – to date – shamefully untamed way for all human beings to witness and share their truths.

3. Create secrecy-positive software architectures and platforms which then easily VALIDATE, ENHANCE, UPSKILL, properly VALUE, and respect ALL GENDERS' ways of thinking intuitively.

development roadmap for humanIT

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What next?

As the professionals of a traditional data science, we ask you to open the door to a different way of validating, enhancing, upskilling, valuing and including all genders equally in every one of the myriad ways of human thinking.

Just this … yeah?

Mil Williams, Stockholm Sweden, December 19th 2022

Biography

Mil Williams has a BA in Film & Literature from Warwick University, UK; a University Master in Publishing from Salamanca University, Spain; and a Master in International Criminal Justice from Liverpool John Moores University, UK.

His heroes invented the printing-press, failed at the last hurdle against the Catholic Church, and were right about the nature of the future shape of the Irish Republic: that is, how it would show the rest of the world all human beings must be treated, despite its own awful and profound history of oppression by people from his homeland.

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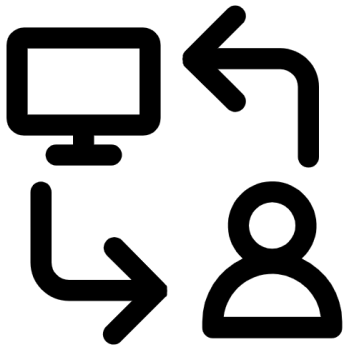

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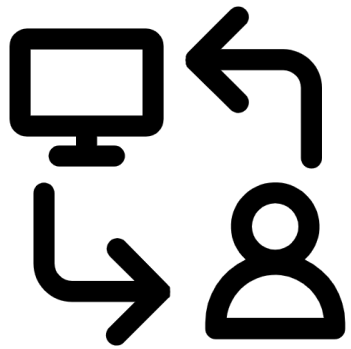

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