

3rd Parties – Friend or Foe?

- OEMs work with 3rd parties (non-principals) all the time
- It's all about blame
- Emphasis on third-party algorithm development
 - Ideas are not the scarce resource
 - Integration is the challenge
 - Do we need an API?
- Need to be open to new ideas
 - I have one!

Working with 3rd Parties

- We use 3rd parties for:
 - Service
 - Supply
 - Development
- Heck, we even have a direct competitor as a supplier!
- Can we learn from these areas?
 - Example from overseas service



Big Issues

- Vetting:
 - How do we ensure that the 3rd party is not...
 - An extremist
 - Stealing IP
 - A Cyber-Risk
 - Otherwise working against our cause
- Integrating:
 - Partners' perspective: it's your fault!
 - Customers' perspective: just fix it!
- Roles: Who is the 3rd party here anyhow?
 - Typically need a lead / responsible party

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Challenges to 3rd Party use

What if your 3rd party algorithm failed testing or did this?
 TSA Agents Say They're Not Discriminating Against Black Women, But Their Body Scanners Might Be

https://www.propublica.org/article/tsa-not-discriminating-against-black-women-but-their-body-scanners-might-be

- Cyber-security concerns
- If data is lost, who cares?
- Regulators historically like "one size fits all"
 - Moving away from that
- Isn't it worth it for the ideas?



Viewing the Hype

- Ideas are <u>not</u> the short commodity
 - 55000 new PhDs in US
 - 30000 new products / year (Harvard Business School), 80% fail (or maybe it's 95%)

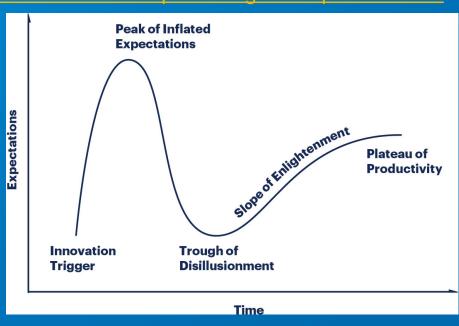
https://www.publicity.com/marketsmart-newsletters/percentage-new-products-fail/

Gartner Hype Cycle

https://www.gartner.com

Interaction:

- Where is 3rd party on the cycle?
- What about Deep Learning?



Some 3rd Party initiatives

- Algorithms
- Canines
- Testing
 - What's the benefit?

Solution

- Formal / Legal
 - Established Responsibilities
 - Carefully crafted Statement-of-Work
 - Well-designed API
 - Integration Plan
 - High-overhead, low expected-value
- Is there an (easier) alternative?
 - NDA, lightweight collaboration, build trust, integration, MOU
 - Silevitch: only 19 years to build trust
- Carrying that to its logical extension...

Wacky Idea

- Open Source detection code-base!
 - Why not?
 - No really, why not?
 - If it's good enough for Linux...
- Corollary: If we figure out how to stop a threat, and releasing that information isn't going to expose vulnerability, shouldn't we publish it?

vulnerability, shouldn't we publish

Thank You!

