

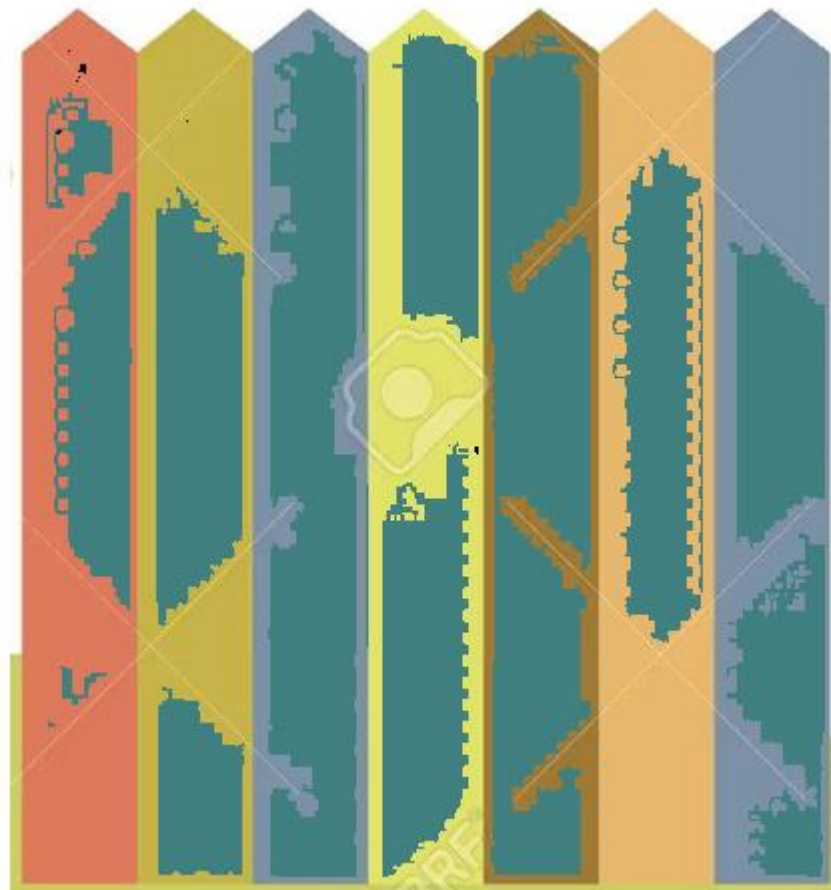
New Approach to Governance: combining Identity, Device and Target governance into one: IDT

Agenda

- Governance story
- IDT model
- IDT governance program

Governance Story

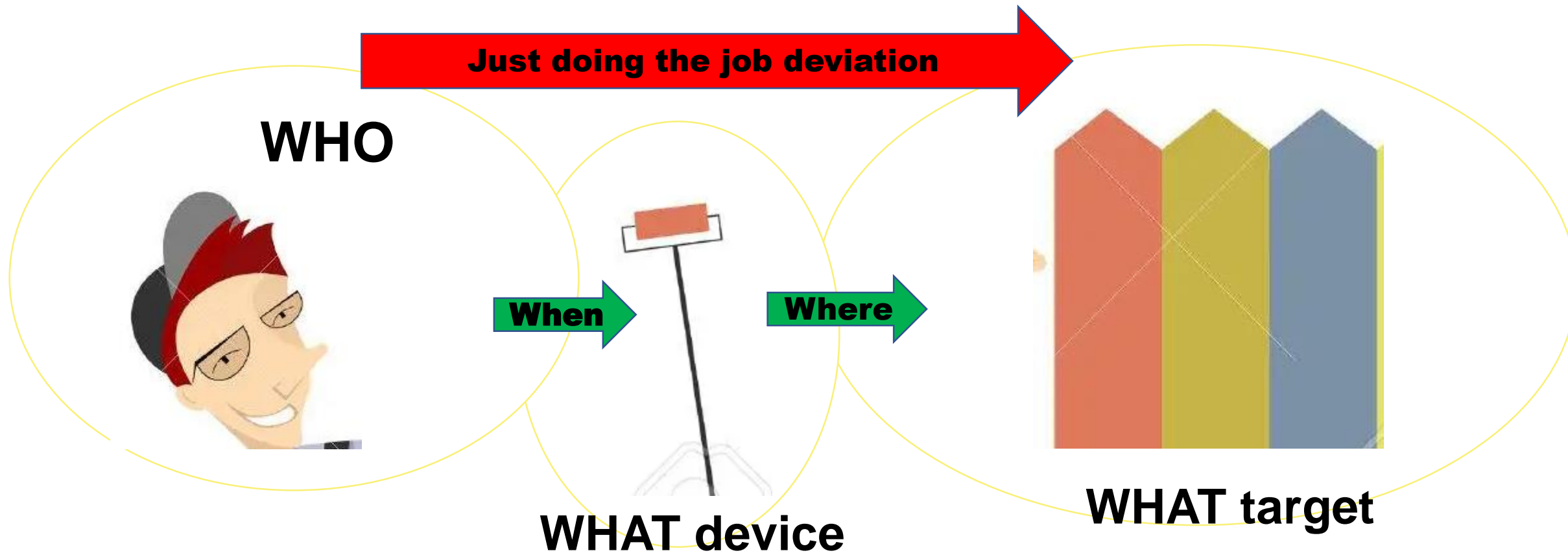
Once upon a time, a person was given a task – to paint a fence



But the organization has many policies around the process to prevent this:



Painting with governance is fun!



Missing Question:

WHY?

ANSWER:

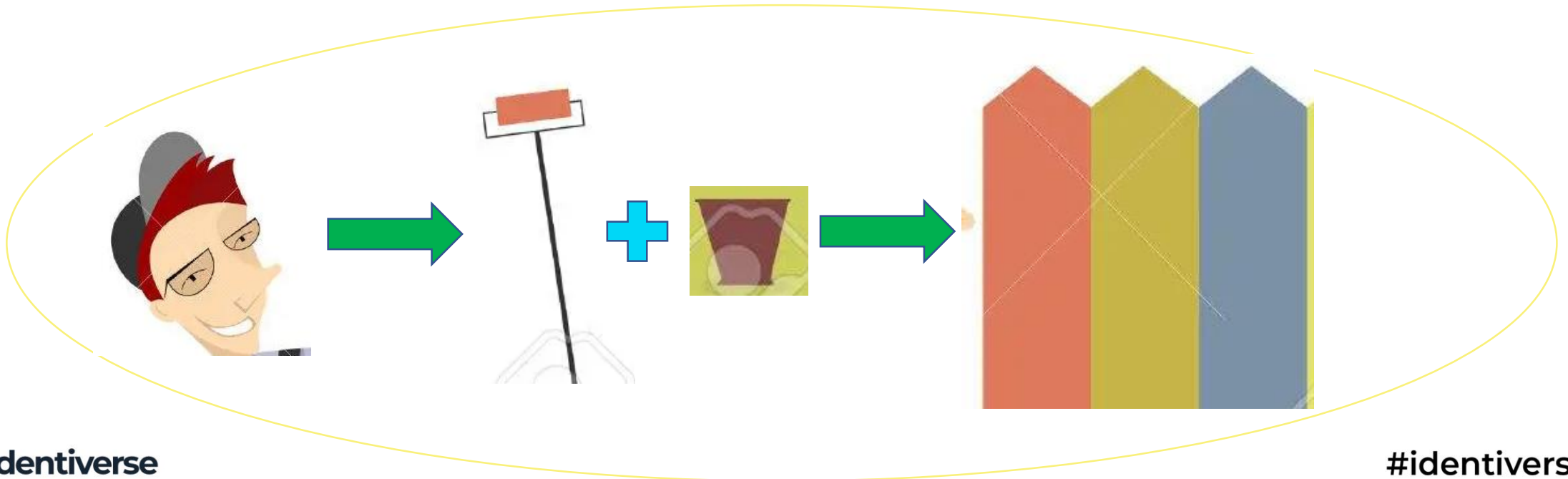


Joint Governance - IDT:

Goal:



Method: Identity + Device path + Target path policy

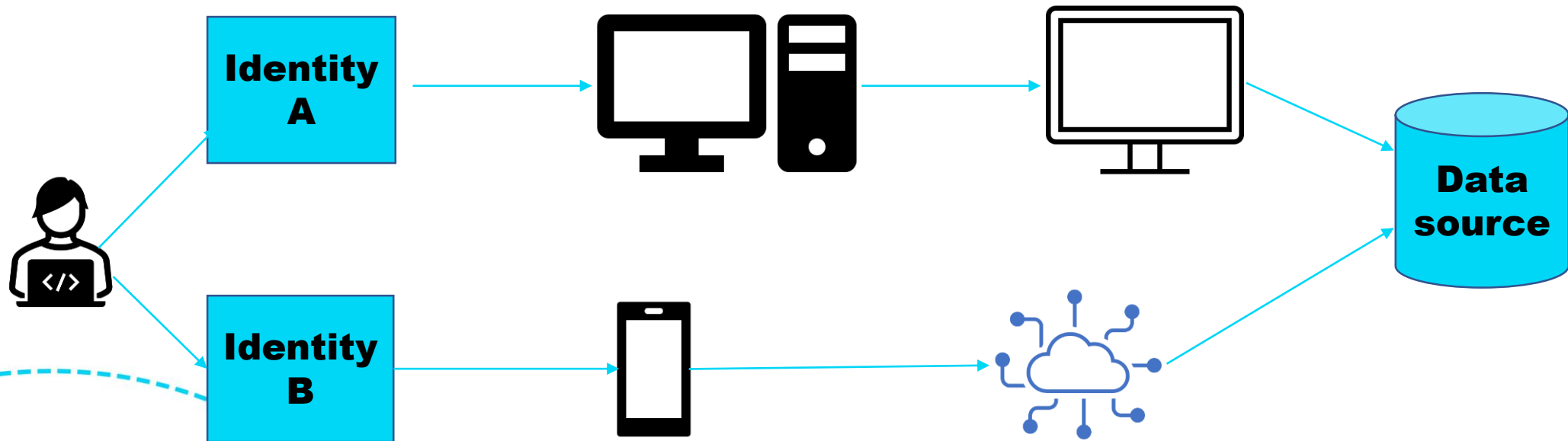


IDT Model

Speak C-Level language about governance

1. Sample business task: update enterprise customer data
2. Goal: find the optimal path to complete business task
3. Method: analyze IDT paths - different ways how person can complete a task

BACK-END PATH 1



FRONT-END PATH 2

IDT Governance business process goals

- 1. Maximize task ROI**
- 2. Maximize task efficiency**
- 3. Minimize time spent on each task fulfillment doing it in safe way**

Cost comparison score card

Path number	People	Equipment	Target licenses	Service	Governance and security	Total
PATH 1	\$200	\$20	\$50	\$10	\$20	\$300
PATH 2	\$100	\$10	\$100	\$20	\$20	\$250

1. **People** – wages
2. **Equipment** – device use cost
3. **Target** – license cost
4. **Service** – maintenance expenses
5. **Governance and security** – managing and enforcing governance and security process cost

Value comparison score card

Path number	Direct revenue	Loss prevention	Efficiency gain	Total
PATH 1	200	100	0	300
PATH 2	200	50	50	300

1. **Direct revenue** - financial gain of organization after task is completed via IDT path
2. **Loss prevention value** – completed task prevents potential or imminent money loss
3. **Efficiency gain** – completed task increases revenue on existing operations

IDT paths comparison score card

Path number	Velocity	Frequency (per month)	Cost	Value	ROI (per month)
PATH 1	3	15	300	300	0
PATH 2	2	30	250	300	1500

1. **Velocity** - time to finish task using chosen IDT path
2. **Frequency per month** – how often IDT path was used in average per month
3. **Cost** – total cost to complete task using IDT path
4. **Value** – financial value for the organization of the task completion result
5. **ROI = (Value – Cost)* Frequency**

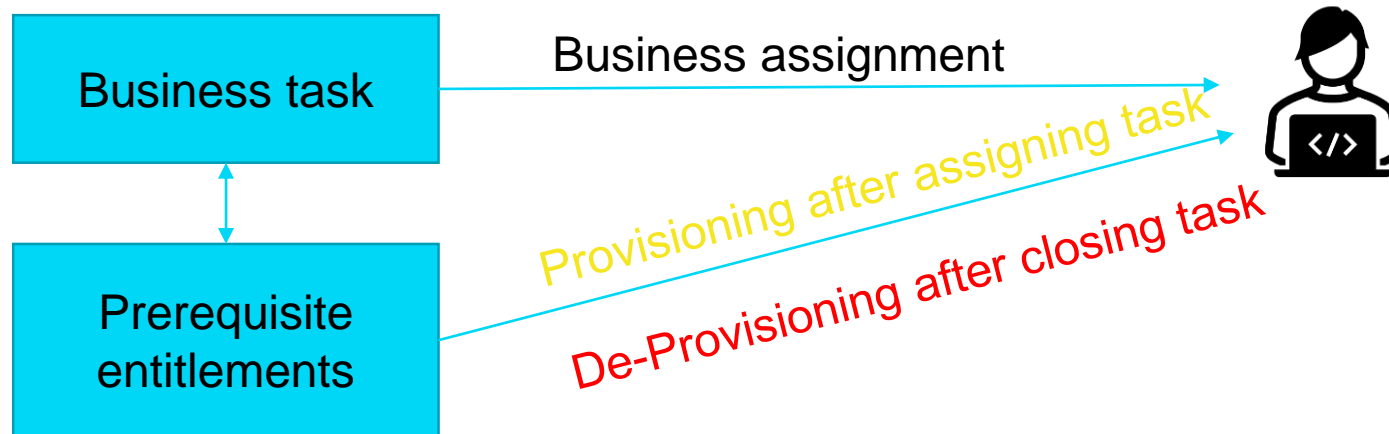
IDT analytics metrics

- 1. IDT Efficiency**
- 2. Cumulative Task Speed**
- 3. Cumulative Task ROI**

IDT Governance Program

IDT Governance Program Plan:

1. Involve champion: identify business objectives
2. Start building task-based governance



3. Build risk model as a part of cost/value estimation
4. Get approval from compliance and legal
5. Choose IDT Governance friendly vendors

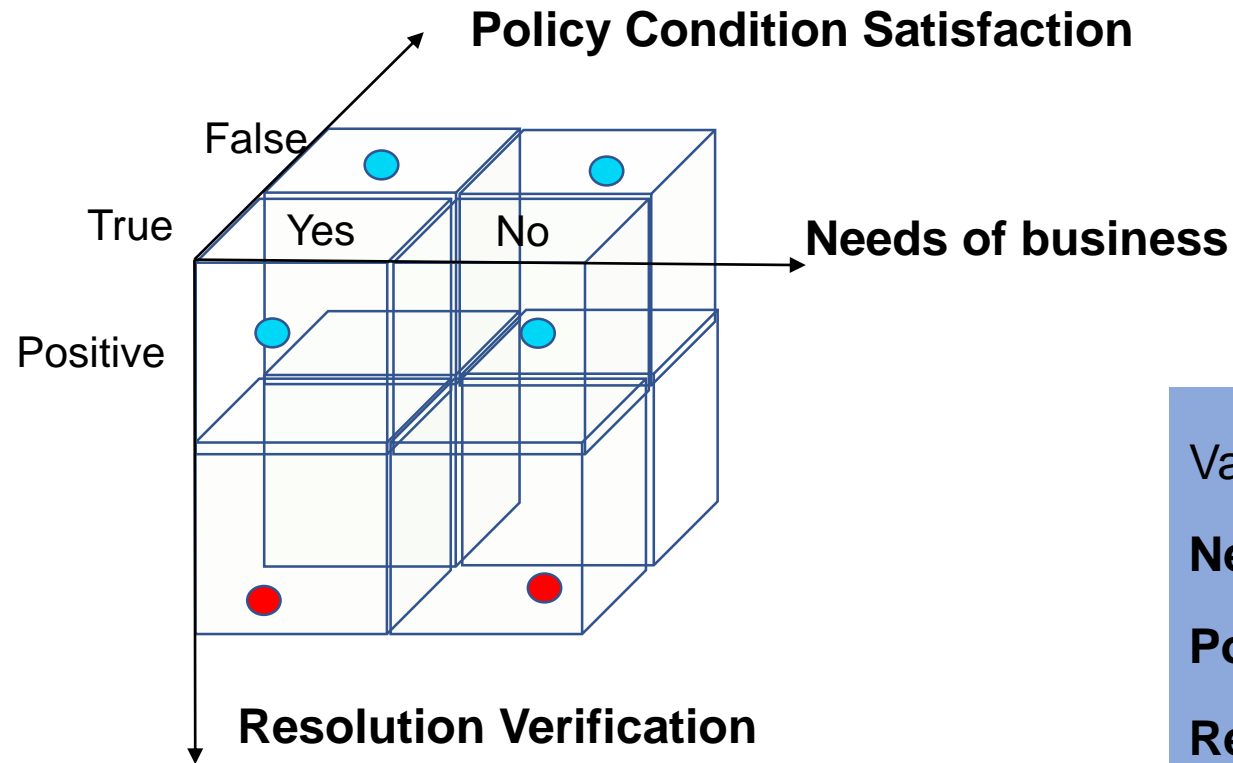
IDT Governance policies functionality model

Functionality	Phase	Method
Policy Authority	Build	Repository
Policy Enforcement	Prevention	Applying rules
Policy Monitoring	Live detection	Observing & recording
Policy Analysis	Post live detection	Data mining, ML, AI
Policy-based Actions	Live response	Session Disruption
Post Analysis policy adjustment	Post live response	Policy editing

IDT Governance policy vendor score card

Functionality	Identity - Device	Device - Target	Identity -Target
Definitions and Repository	Y	N	Y
Enforcement Points	Y	N	N
Monitoring Points	N	N	N
Policy use data analytics	Y	N	Y
Dynamic response actions	N	N	N
Dynamic policy Adjustments	N	N	N

Cost and efficiency example tool : NPR cube



Values:

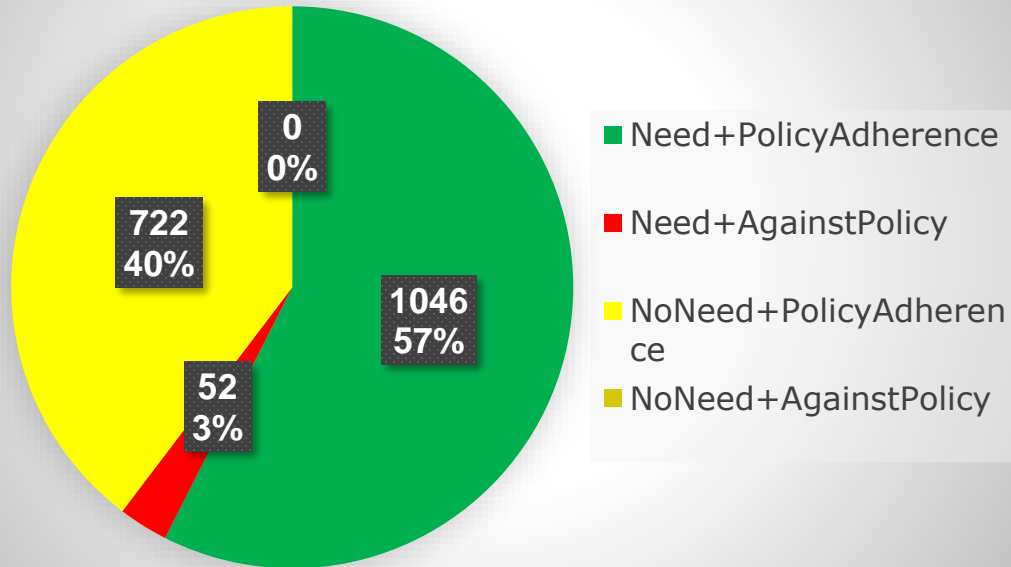
Needs of business: Yes or No

Policy condition satisfaction: True or False

Resolution Verification: Positive or Negative

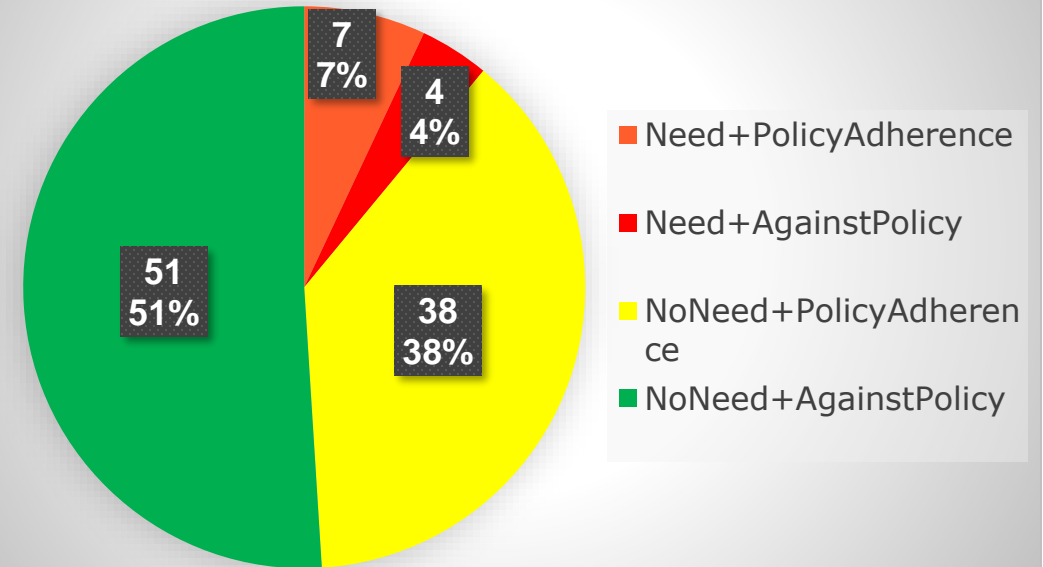
NPR (Need, Policy Resolution) report sample

Positive Resolution



Total sample size: 1820

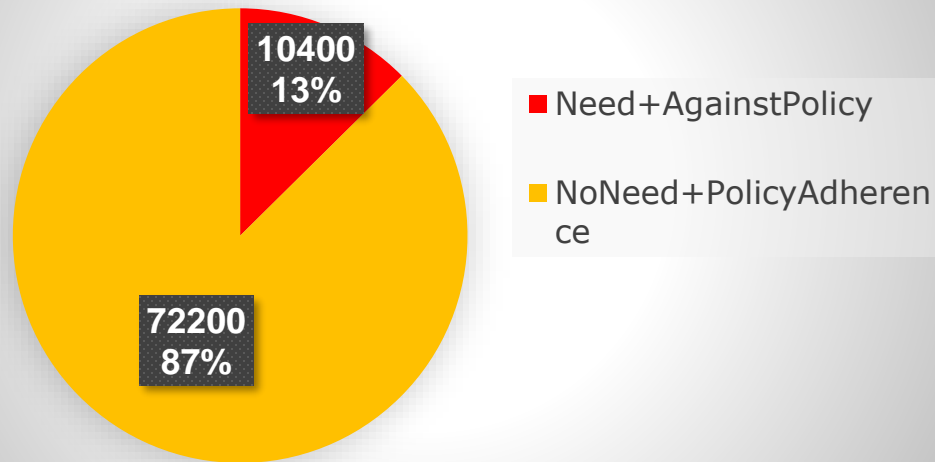
Negative Resolution



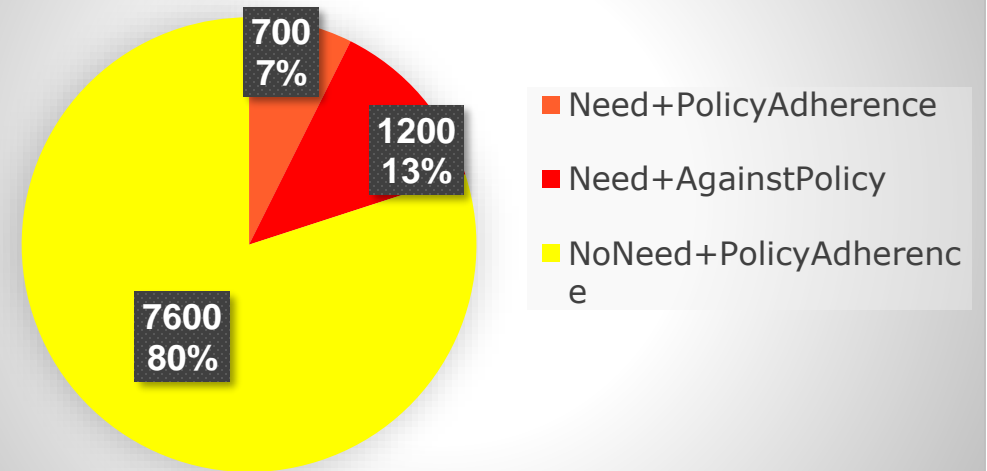
Total sample size: 100

NPR (Need, Policy Resolution) cost estimation

Positive Resolution



Negative Resolution



Estimated labor cost per hour: \$100

Fixing issues estimated cost: 921 hours - \$92,100

Fixing business need and policies estimated cost: 200 hours - \$20,000

Saving: \$72,100

Recommendations For IGA group

- Start conversations with other groups in charge of device, data and application governance and introduce them to IDT concept
- Meet with executive champion and discuss business process evaluation around governance
- Work with project teams to add business entitlements as prerequisites to tasks
- Include business need analysis for a specific entitlement request, possibly by integrating with business tools like JIRA, ITSM and GRC

Recommended Reading

- N. Nikols, V.Shapiro – “Designing and Implementing an Effective Enterprise Identity Governance and Administration Program” (<https://techvisionresearch.com/project/identity-access-governance/>)
- G.Rowe, D. Simmons – “Establishing a Modern-Day Identity Governance and Administration (IGA) Framework” (<https://techvisionresearch.com/project/modern-iga-framework/>)
- M.N.Proskura, D.Teytel, V.Shapiro – “Access Governance NPR Cube Reporting” – to be published in 2023
- M. Reese, V.Shapiro – “IDT governance – new concept” – to be published in 2023
- Vladislav Shapiro – “Costidity theory: human factor cost of implementing security and access policies)” (https://www.academia.edu/42606568/Costidity_The_Cost_of_the_Human_Factor)



THANK YOU!



Vladislav Shapiro

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Costidity Inc.