



Platform voor
InformatieBeveiliging

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Future State of Access

PvIB IAM kennisavond

14 april 2026





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APRIL 14, 2026

IDENTITY MANAGEMENT DAY 2026

The sixth annual Identity Management Day (IMD) continues to inform about the evolving nature of identity. Now, more than ever, we need to manage and orchestrate our human identities, our machine and agentic identities, and how they interact.





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- Author/trainer IMF-academy
- Co-founder PvIB SIG IAM
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December 2020

Founded in the Netherlands

July 2022

Founded the Regensburg office

+ 25

IAM Business Experts

Vision:

We help people, machines, and companies connect data in an intelligent and secure way to leverage the possibilities of digital ecosystems.



This is sonicbee

Your strong partner for Identity and Access Management (IAM). We offer thoughtful and innovative consulting approaches. Our goal? To make companies smarter, faster, and safer.
Become a pioneer in identity and access management:

“Who can access what and why?”

Let's Go!





Future state of access

- First: Rewind 20 years
- Then: Fast forward to today
- And: Further forward to the future



T

20 years ago I wrote:

'RBAC is EOL'

- Roles are local
- Governance issues
 - What authz are in a role and who decides?
 - Who gets a role and who decides?
 - How about nested groups?
- Roles have no context
- Roles are static





20 years ago...

The way forward



Kim Cameron's
Laws of Identity

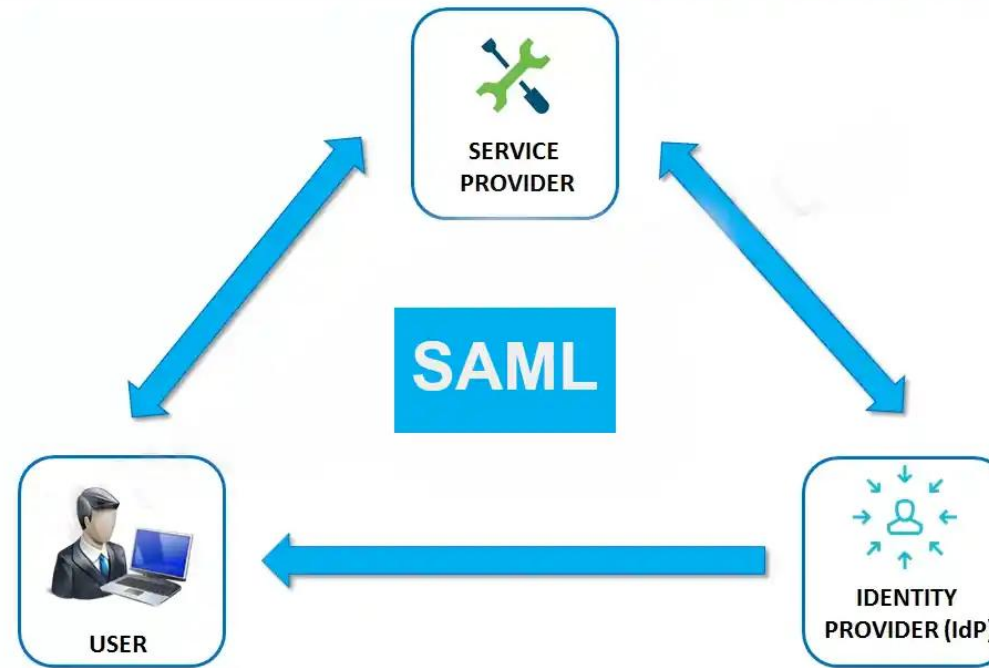
- 1 User Control and Consent**
Technical identity systems must only reveal information identifying a user with the user's consent.
- 2 Minimal Disclosure for a Constrained Use**
The solution which discloses the least amount of identifying information and does so in the most stable long term solution.
- 3 Justifiable Parties**
Digital identity systems must be designed so the disclosure of identifying information is limited to parties having a necessary and justifiable place in a given identity relationship.
- 4 Directed Identity**
A universal identity system must support both "formal-directional" identifiers for use by public entities and "undirected" identifiers for use by private entities. This facilitates discovery while preventing unnecessary release of connection handles.




The way forward

Claims and attributes

```
1
2 <saml:Assertion MajorVersion="1" M
3 Issuer="ActAsSts" IssueInstant="201
4 <saml:Conditions NotBefore="2015
5 <saml:AudienceRestrictionCondi
6 <saml:Audience>https://relyi
7 </saml:AudienceRestrictionConc
8 </saml:Conditions>
9 <saml:AttributeStatement>
10 <saml:Subject>
11 <saml:NameIdentifier>1</saml
12 <saml:SubjectConfirmation>
13 <saml:ConfirmationMethod>u
14 </saml:SubjectConfirmation>
15 </saml:Subject>
16 <saml:Attribute AttributeName=
17 <saml:AttributeValue>Sample
18 </saml:Attribute>
19 <saml:Attribute AttributeName=
20 <saml:AttributeValue>PL</san
21 </saml:Attribute>
22 <saml:Attribute AttributeName=
23 <saml:AttributeValue>sample
24 </saml:Attribute>
25 <saml:Attribute AttributeName=
26 <saml:AttributeValue>Admin</
27 <saml:AttributeValue>User</s
28 </saml:Attribute>
29 </saml:AttributeStatement>
30 <Signature xmlns="http://www.w3.o"
31 </Signature>
50 </saml:Assertion>
```





Fast forward to today

- RBAC is here to stay...
 - for the next 20 years...



Fast forward to today

- Adding dynamic access control capabilities is essential
 - Roles are local and static
 - Non-human identities have no role
 - Roles lack the concept of context, dynamics
 - Roles are attributes

If roles are just attributes, how do we give access?



Fast forward to today

- Next up: Policy Based Access Control
 - Business rules act on attributes to make the access control decision
 - Dynamics and continuous policy validation are a pre-condition for Zero Trust
 - Identity is just another attribute

If identities are just attributes, how do we grant access?



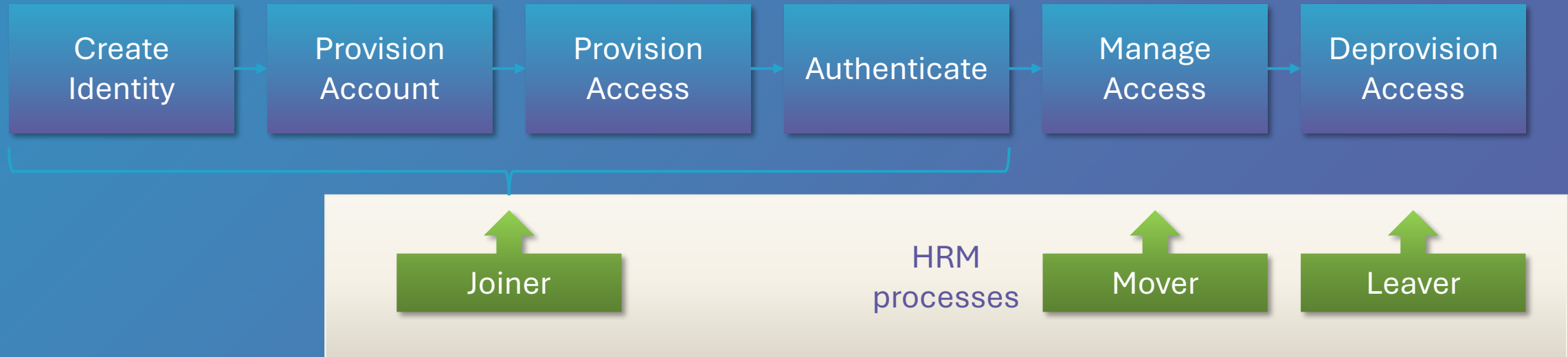
Beware of humans...

If Identity is just another attribute, then

- good data quality of identity providers is essential
- Joiner – Mover – Leaver processes can be automated
 - Hello IGA!
- we need to know who is involved in a transaction
 - logging and monitoring will become more important
- the concept of objects and subjects becomes more important
 - ‘on behalf of’ is a key concept
 - ‘for the benefit of’ is not yet a well-known concept...
 - we need to identify the transaction-initiating actor



Lifecycle workforce IAM



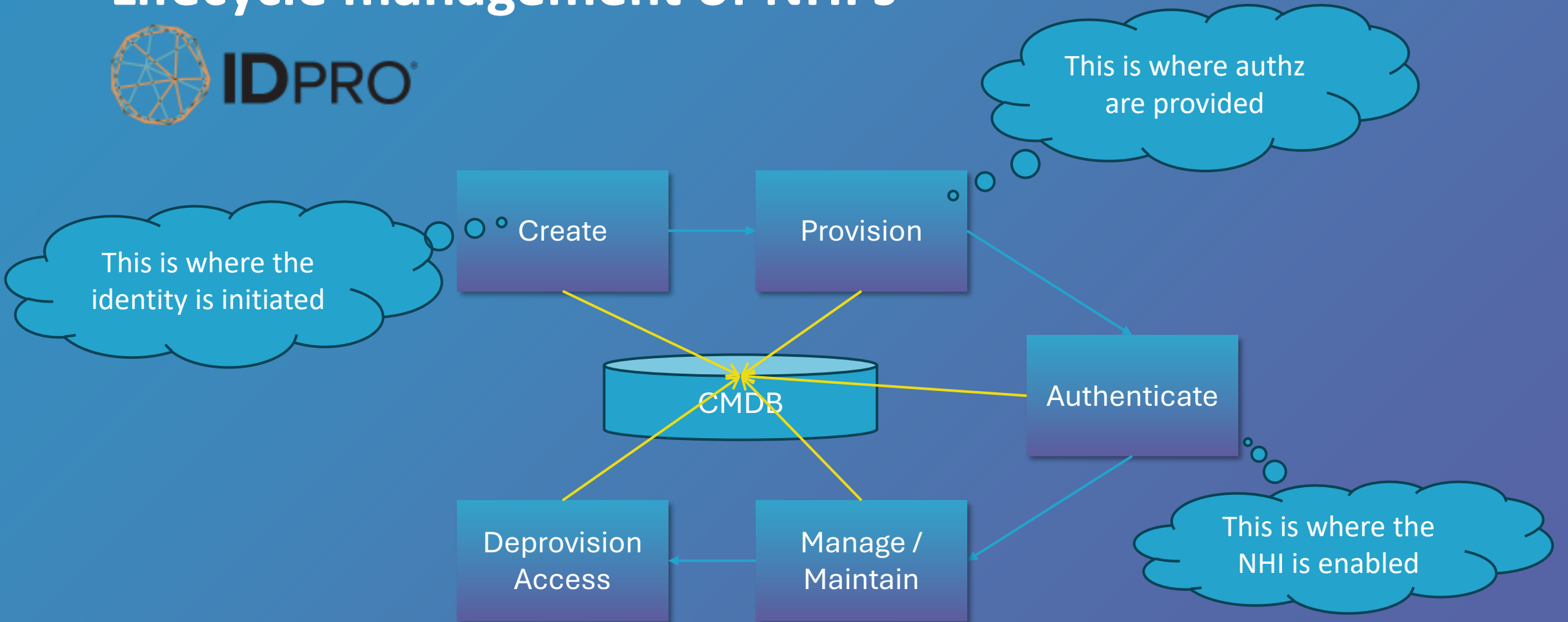


Beware of the non-humans

- Non-Human Identities are different from Human Digital Identities
 - Lifecycle management is key
 - Permission management is hell



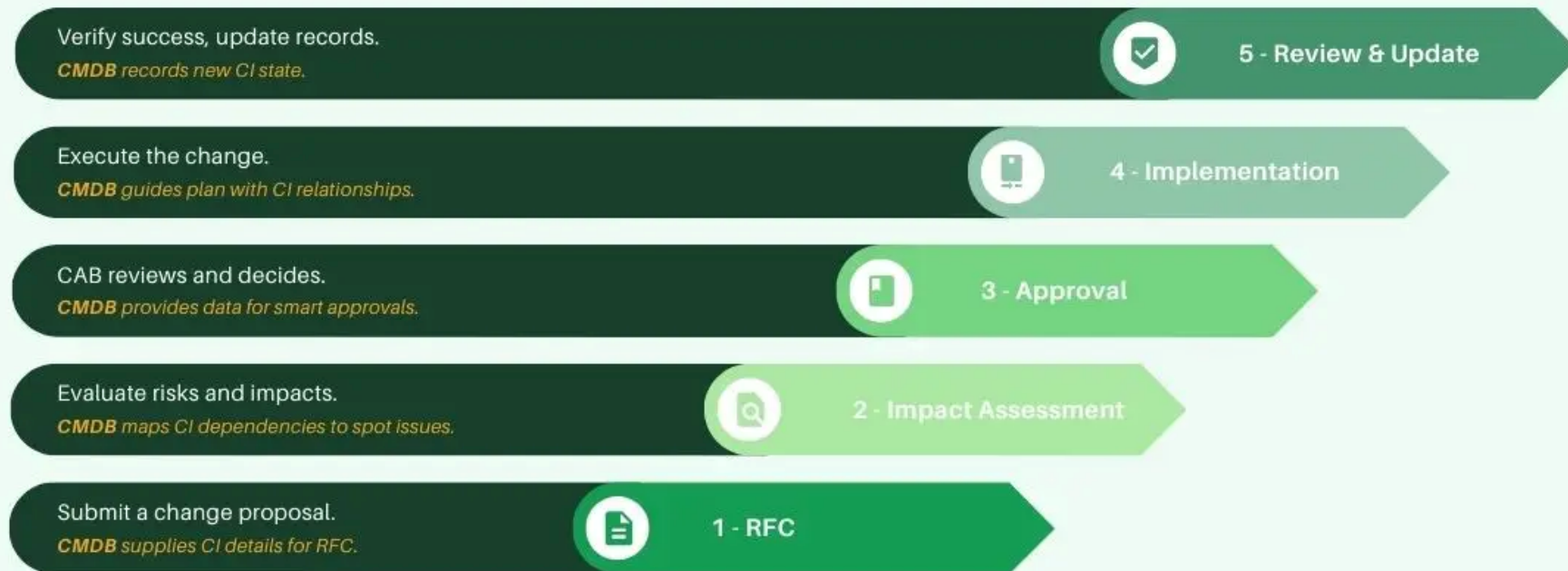
Lifecycle management of NHI's



Change management. And CMDB...

CHANGE MANAGEMENT PROCESS

with CMDB



www.assetloom.com

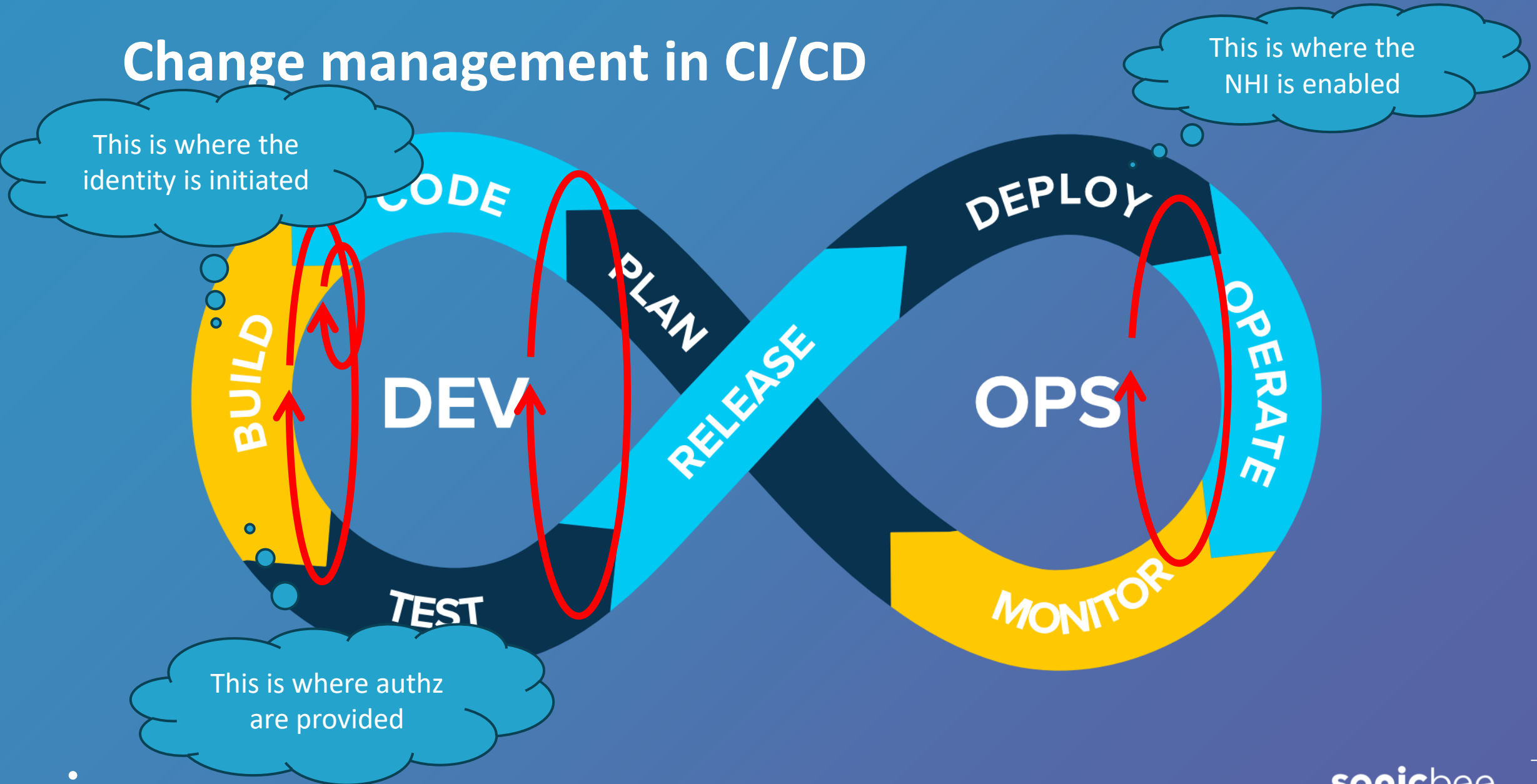
Human versus non-human identities



	Person Identity	Non-human Identity
Usage	Multi-faceted, must accommodate multiple access requirements to many applications or protected resources	Purpose-specific, with a single requirement for each deployment
Lifecycle	Created during the 'joiner' process, modified when 'moves' occur, continually monitored for compliance, disabled, and then deleted according to the 'leaver' process. ¹	Created on deployment of the device/service, deleted on termination.
Access control	Dynamic – continual risk-assessed authentication matched to the assurance level requirements of the requested application or protected resource. MFA is used for authentication elevation.	Static – determined at the time of account creation. No MFA requirement.
Access endpoints	Users typically access computer services from smartphones, PCs, and laptops on an interactive basis.	Endpoints are typically devices or device controllers. They can also be computer applications, service routines, or Internet bots.

Table 1 - Account type characteristics

Change management in CI/CD





AI Agent lifecycle...





Future State of Access

If roles are just attributes, how do we give access?

If identity is not the new perimeter but...
just another attribute, how do we grant access?

We need a new perimeter: Access Governance, Access Policies



And how about NHI access?

Governance

Who is the owner?

Every NHI has an owner who is accountable for the NHI actions

What is the purpose?

An NHI is created to perform tasks. Specific business tasks.

How do we identify?

Manual provisioning is only feasible for manual change management processes...



What authorizations?

Not just a role.
Dynamic: a rule, taking into account purpose and context.

Trust

Back to the Future State of Access

Access policies are business rules, working on attributes

Identities are attributes, but needed for accountability

We need new dynamic security / controls. How?



And how about NHI access?

Dynamic Access

Policy Based Access

Business Rules define access:
SoD, policy resolution and
prioritization



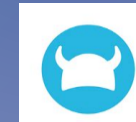
Relation Based Access

(Trust) relation between
hosts define effective access



Policy Orchestration

Logical sequential policy
flows define the outcome of
the access control decision



MECE Access Policy Governance



Back to today to prepare for your future

SPIFFE/SPIRE, MCP, UMA, CIBA, UTCP
It's all over IT again. But think again...

Who can have access to what and why is that

It's all about the business

IGA, PAM, CIAM, SPIFFE/SPIRE, MCP, UMA, CIBA, UTCP, and Access Governance

It's just too much. IAM can no longer be a one man band.

It requires a TEAM with professionals from business and IT

Kennisevent PAM: bescherm kritieke IT/OT-toegang (NIS2)

22 april @ 11:30 am - 3:00 pm CEST

Wat begint met gestolen toegang tot kernsysteme continuïteit.

Security incidenten beginnen vaak k serviceaccount of een te ruim inges

Het echte risico zit in de schade die naar privileged access en accounts OT-omgevingen weet te verkrijgen en

Maar wat als je die toegang achter e (PAM) helpt om die toegang beheers is op zichzelf al zeer waardevol en v



Gegevens

Datum:

22 april

Tijd:

11:30 am - 3:00 pm CEST

Evenement Categorie:

[SonicBee Kennisevent](#)

Evenement Tags:

[IT/OT](#), [Kritieke toegang](#), [NIS2](#), [non-human identities](#), [PAM](#), [PAM en NIS2](#)

Locatie

./ Dotslash Utrecht

Europalaan 400

Utrecht, [Utrecht](#) 3526 KS Nederland

[+ Google Maps](#)

Organisator

SonicBee


<https://www.sonicbee.eu/event/pam-en-nis2-bescherm-kritieke-it-ot-toegang/?lang=nl>

Thank you...

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Identifying Stakeholders in Access Governance

<https://www.sonicbee.eu/identifying-stakeholders-in-access-governance/>



Meer leuke links:

IDPro Body of Knowledge:

<https://idpro.org/body-of-knowledge/>

PvIB SIG IAM:

<https://www.pvib.nl/actueel/nieuws/nieuw-bij-pvib-special-interest-group-identity-access-management-iam>

Webcast:

<https://gluu.org/identerati-office-hours-episodes/>

Podcast:

<https://www.identityatthecenter.com/>