

June 4th 2025

abap
conf2025

ABAPConf Keynote

Capabilities

June 4th, 2025

09:30 CEST | 3:30 EDT



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```
DATA(ls_structure) = get_structure( 'x_jm2g_jm' ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadi( IMPOR...  
DELETE ls_sadi-attributes USING KEY...  
  
LOOP AT it_property_binding ASSIGNING ls_property_binding WITH PROPERTY_BINDING 'x_jm2g_jm'  
  ls_attribute = VALUE #( ls...  
    name = ls_property_binding-...  
    binding = <ls_property_binding-...  
  ).  
  IF <ls_property_binding-...  
    ls_attribute-is_key = if_sadi...  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadi-attributes.  
ENDLOOP.
```

Capabilities

```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.  
  ls_attribute = VALUE #( ls  
    = ( ls_structure-name ) derivative )  
    name      = <ls_property_binding>-name_field  
    binding   = <ls_property_binding>-property_binding  
    structure IS = ls_structure-structure IS ).  
  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-is_key IS_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

/ˌkeɪ.pəˈbɪl.ə.ti/ ca-pa-bil-i-ty

Capabilities

(noun) the power or ability to generate an outcome

```
DATA(ls_structure) = get_structure(
  ASSERT ls_structure IS NOT INITIAL.
  get_sadl( IMPORTING ex_sadl = DATA(ls_sadl) ).
  DELETE ls_sadl-attributes USING KEY structure WHERE structure_id = ls_structure-id.

  LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.
    ls_attribute = VALUE #( ls_
      name      = <ls_property_binding>-name
      binding    = <ls_property_binding>-binding
      structure_id = ls_structure-id ).
    IF <ls_property_binding>-is_key = abap_true.
      ls_attribute-is_key = if_sadl_type-is_key_true.
    ENDIF.
    INSERT ls_attribute INTO TABLE ls_sadl-attributes.
  ENDLOOP.
```

Enterprise Architecture

„ability to do something“

Business Capability

“A business capability is a particular ability or capacity that a business may possess or exchange to achieve a specific purpose or outcome” -- TOGAF

```
DATA(ls_structure) = get_structure( <ls_entity> get ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure FROM WHERE structure-id = <ls_structure-id>.

LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls_
    = {<ls_structure-name> } attribute )
    name
    = <ls_property_binding>-name_field
    binding
    = <ls_property_binding>-property_binding
    structure_id = <ls_structure-id> ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type-not_is_key_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```

Why do we work with SAP?

Why is our company using SAP?

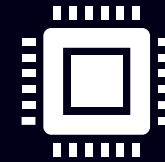
How is SAP used?

```
DATA(ls_structure) = get_structure( ls_entity_get ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING eo_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure.

LOOP AT it_property_binding AS ls_property_binding.
  ls_attribute = VALUE #( ls_sadl-attributes = <ls_property_binding-attribute>
    name = <ls_property_binding-attribute>
    binding = <ls_property_binding-binding>
    structure_id = ls_structure-id ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type_is_key( ls_sadl_type ).
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```

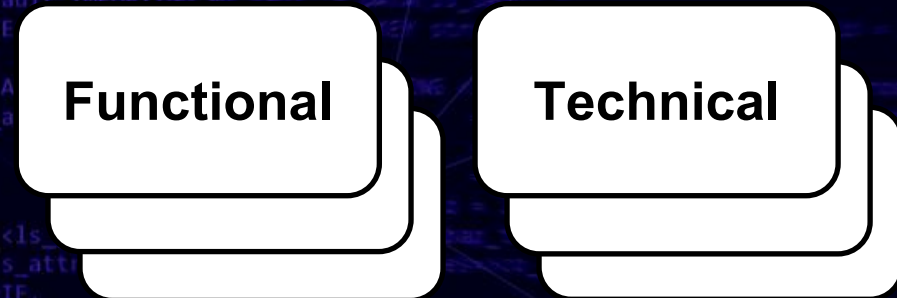
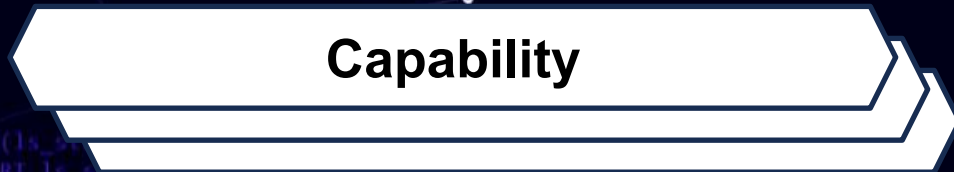


Architecture



```
DATA(ls_structure) = get_structure( is_entity_get ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING eo_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.

LOOP AT it_property_binding ASSIGNING ls_property_binding WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls
    = ( ls_structure-name ) derivative (
      name
      = <ls_property_binding-name_field>
      binding
      = <ls_property_binding-structure_binding>
      structure IS = ls_structure-structure IS ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type-not_is_key_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```



```
DATA(ls_a) = ' '
ASSERT ls_a = ' '
get_sad1( 'MONITORING' AS SADM = SADM )
DELETE FROM TAD01 WHERE SADM = SADM
LOOP AT ls_a
  IF <ls_a>
    ls_atti
  ENDIF.
  INSERT ls_attribute INTO TAB1 ls_sadm-attribute
ENDLOOP.
```


Product

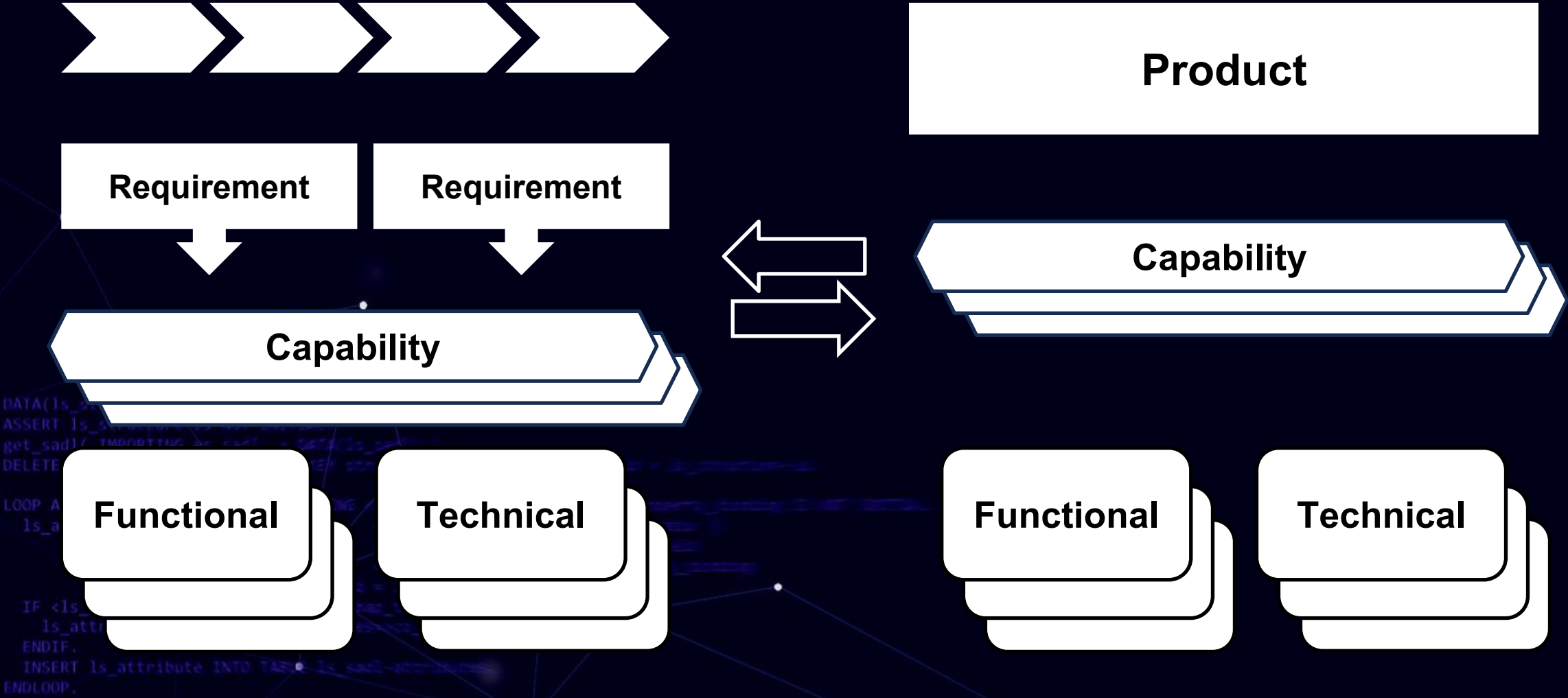
Capability

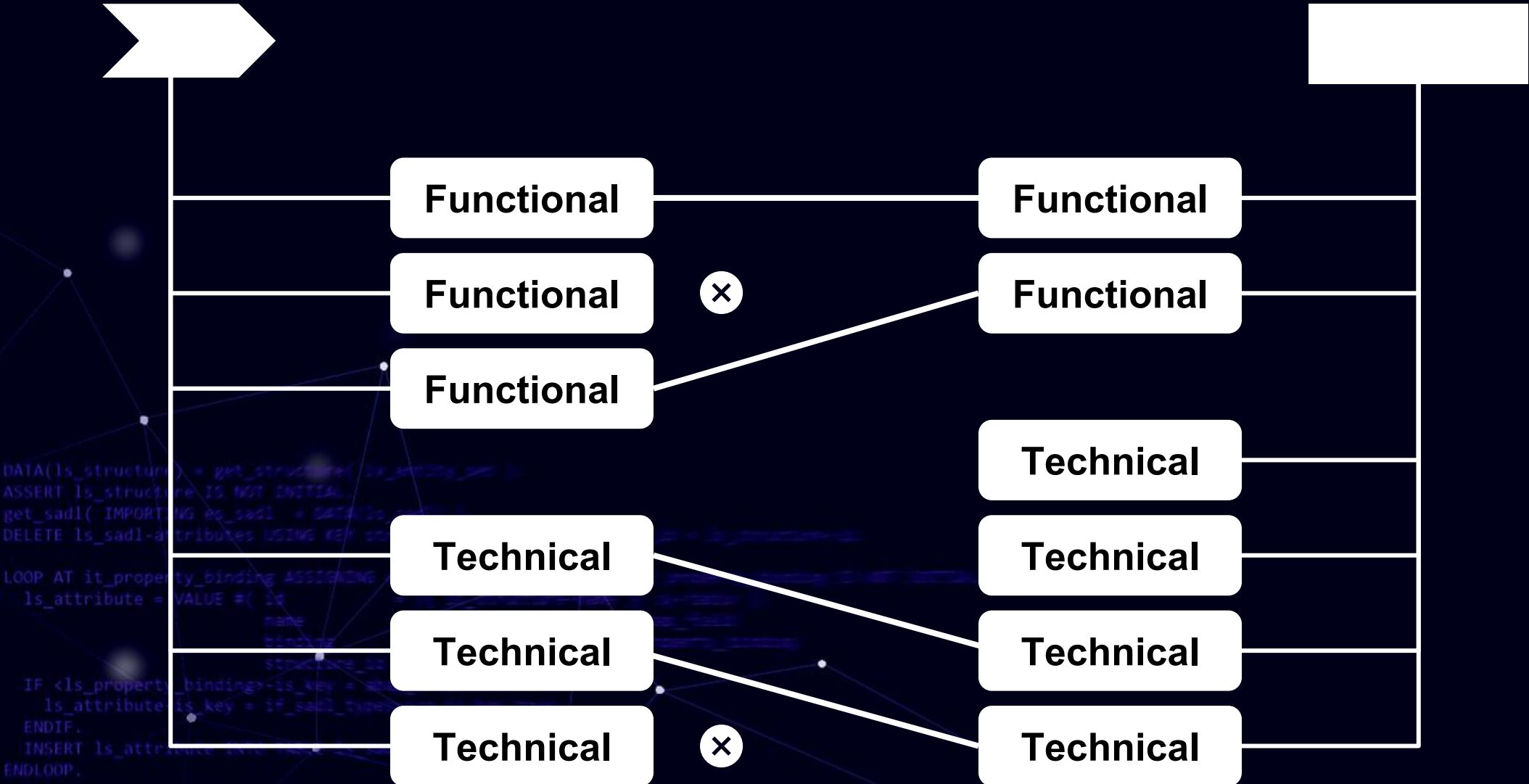
Functional

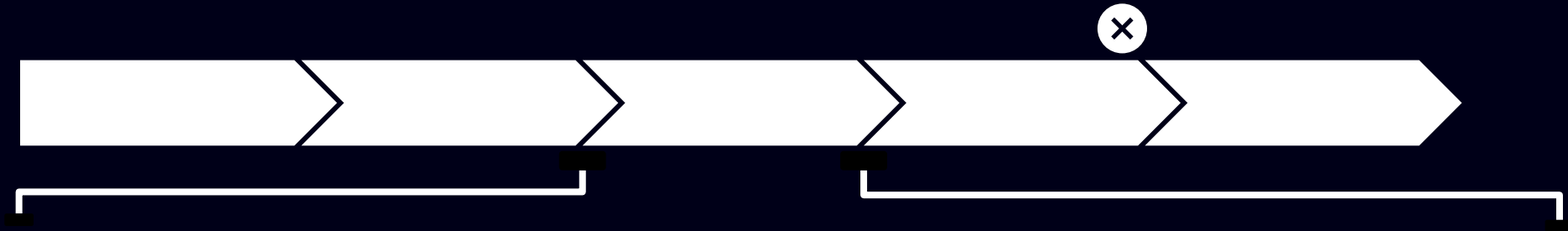
Technical

```
DATA(ls_structure) = get_structure( ls_entity_get ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.

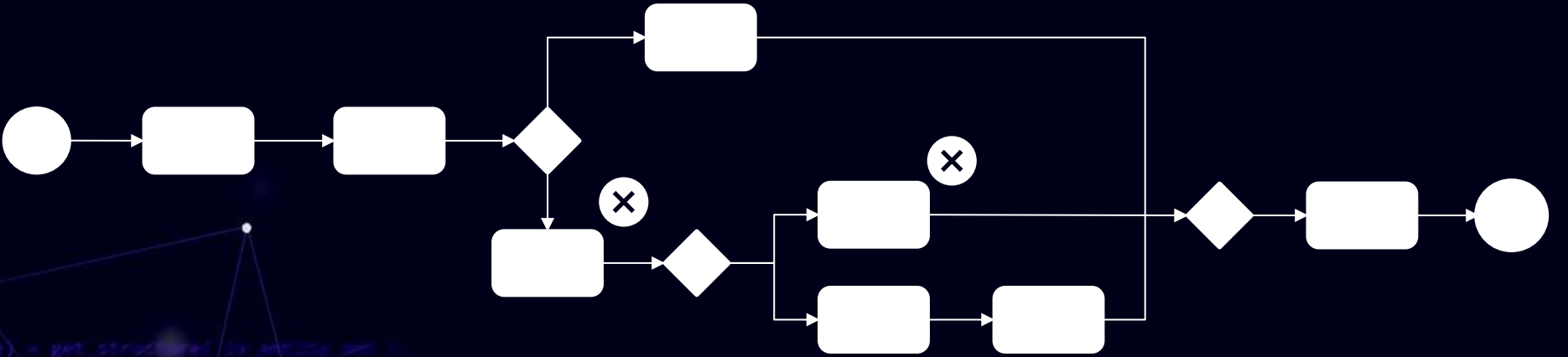
LOOP AT it_property_binding ASSIGNING ls_property_binding WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls
    name          = <ls_property_binding-name>
    binding       = <ls_property_binding-binding>
    structure_is = ls_structure ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type_is_key_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```





Business Process



SAP

```
DATA(ls_structure) = get_structure( <ls_entity> get ).
ASSERT ls_structure IS NOT NULL.
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure WHERE structure_id = <ls_structure>-id.

LOOP AT it_property_binding ASSIGNING <ls_property_binding>
  ls_attribute = VALUE #(
    name = <ls_property_binding>-property_name
    binding = <ls_property_binding>-property_binding
    structure_id = <ls_structure>-id ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type_is_key_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```

Apps



LoB

Custom Development

Enhancements



Cost factor

Risk

```
DATA(ls_structure) = get_structure( <ls_structure> ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure IS <ls_structure>.

LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls_
    name      = <ls_property_binding>-name
    binding    = <ls_property_binding>-binding
    structure  = ls_structure ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type_is_key_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```

```
REPORT z_tobias_sflight.

DATA flights TYPE sflight.

SELECT-OPTIONS carrid FOR flights-carrid.
SELECT-OPTIONS connid FOR flights-connid.

DATA flight_select TYPE STANDARD TABLE OF sflight.

SELECT * FROM sflight
  INTO CORRESPONDING FIELDS OF TABLE @flight_select
  WHERE carrid = @carrid-low AND connid = @connid-low.

TRY.
  cl_salv_table=>factory( IMPORTING r_salv_table = DATA(lo_alv_display)
                        CHANGING t_table      = flight_select ).
  CATCH cx_salv_msg.
ENDTRY.

lo_alv_display->display( ).
```

Als Variante sichern... Mehr ▾

CARRID:

bis:

CONNID:

bis:

Kurzbezeichnung der Fluggesellschaft (1) 18 Einträge... ▾

Einschränkungen

✓

🔍

🔍

★

🔍

🔍

🔍

🔍

ID ▲

Fluggesellschaft

AA American Airlines

AB Air Berlin

AC Air Canada

AF Air France

AZ Alitalia

BA British Airways

CO Continental Airlines

DL Delta Airlines

FJ Air Pacific

JL Japan Airlines

LH Lufthansa

NG Lauda Air

NW Northwest Airlines

18 Einträge gefunden

```
DATA(ls_structure) = get_s...
ASSERT ls_structure IS NOT...
get_sadl( IMPORTING es_sadl...
DELETE ls_sadl-attributes...

LOOP AT it_property_binding...
  ls_attribute = VALUE #( ...
ENDLOOP.

IF <ls_property_binding>...
  ls_attribute-is_key = ...
ENDIF.
INSERT ls_attribute INTO...
ENDLOOP.
```

Ma...	Car...	Flug...	Flugdatum	Flugpreis	Währu...	Flugzeugtyp	Kapazität	Belegung	Eco	Akt. Buchungssumme	Kapazität	Belegung	Bus	Kapa...
100		400	20.10.2024	666,00	EUR	A340-600	330	313		261.351,72	30	28	20	
100	LH	400	21.11.2024	666,00	EUR	A340-600	330	321		268.964,10	30	28	20	
100	LH	400	23.12.2024	666,00	EUR	A340-600	330	319		266.786,28	30	29	20	
100	LH	400	24.01.2025	666,00	EUR	A340-600	330	319		266.293,44	30	28	20	
100	LH	400	25.02.2025	666,00	EUR	A340-600	330	320		270.828,90	30	30	20	
100	LH	400	28.02.2025	666,00	EUR	A340-600	330	320		268.497,90	30	29	20	
100	LH	400	28.03.2025	666,00	EUR	A340-600	330	319		267.532,20	30	27	20	
100	LH	400	29.03.2025	666,00	EUR	A340-600	330	318		271.068,66	30	30	20	
100	LH	400	30.04.2025	666,00	EUR	A340-600	330	318		267.392,34	30	28	20	
100	LH	400	01.06.2025	666,00	EUR	A340-600	330	196		163.549,62	30	17	20	
100	LH	400	03.07.2025	666,00	EUR	A340-600	330	173		144.641,88	30	16	20	
100	LH	400	04.08.2025	666,00	EUR	A340-600	330	115		96.536,70	30	10	20	
100	LH	400	05.09.2025	666,00	EUR	A340-600	330	0		0,00	30	0	20	
100	LH	400	07.10.2025	666,00	EUR	A340-600	330	36		28.358,28	30	2	20	
100	LH	400	08.11.2025	666,00	EUR	A340-600	330	19		16.283,70	30	2	20	

SAP for custom development

- ✓ Integrated system
- ✓ Strong technical foundation
- ✓ Enterprise ready
- ✓ Reuse resources
- ✓ Development efficient
- ✓ Business friendly (domain modeling)

+ Cost-efficient

```
DATA(lv_structure) = ...  
ASSERT lv_structure IS NOT INITIAL.  
get_sadl( IMPORTING es_sadl = DATA(lv_sadl) ).  
DELETE /> sadl-attributes USING KEY structure ...  
LOOP AT ... property ...  
  ls_attribute = VALUE #( ls_ ...  
    name = ...  
    binding = ...  
  IF <...> property_binding ...  
    ls_attribute-is_key = if_sadl_type ...  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

SAP Developer Efficiency

- ✓ SAP developer: full stack developer
- ✓ Supporting business processes
- ✓ From database to UI
- ✓ Long term support
- ✓ Go-to person for solving a problem

```
DATA(ls_structure) = get_structure( ls_attr->get_ls_attr_name ).
ASSERT( ls_structure IS NOT NULL ).
get_sadt( ls_attr->get_ls_attr_name, ls_attr->get_ls_attr_type ).
DELETE ls_sadt-attributes USING KEY structure.
LOOP AT ls_sadt-property_bindings ASSIGNING ls_property_binding.
  ls_attr->get_ls_attr_name = VAL( ls_attr->get_ls_attr_name ).
  binding = <ls_property_binding->binding.
  structure_is = ls_attr->get_ls_attr_name.
  IF <ls_property_binding>-is_key = abap_true.
    ls_attr->is_key = if_sadt_type_is_key( ls_attr->get_ls_attr_type ).
  ENDIF.
  INSERT ls_attr INTO TABLE ls_sadt-attributes.
ENDLOOP.
```


Custom development



Enhancements



Cost factor



Risk



```
DATA(ls_structure) = get_structure( is_entity ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure IS es_sadl-structure IS ls_structure.

LOOP AT it_property_binding ASSIGNING ls_property_binding WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls_attribute = |{ ls_structure-name } { ls_property_binding-name }|.
  name = ls_property_binding-name.
  binding = ls_property_binding-binding.
  structure_is = ls_structure.
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type-is_key_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```

Risks

```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure-id = <ls_structure-id>.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.  
  ls_attribute = VALUE #( ls  
    = (| <ls_structure-name> | <ls_entity> |)  
    name      = <ls_property_binding>-name_field  
    binding   = <ls_property_binding>-property_binding  
    structure_id = <ls_structure-id> ).  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-not_is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

Risks

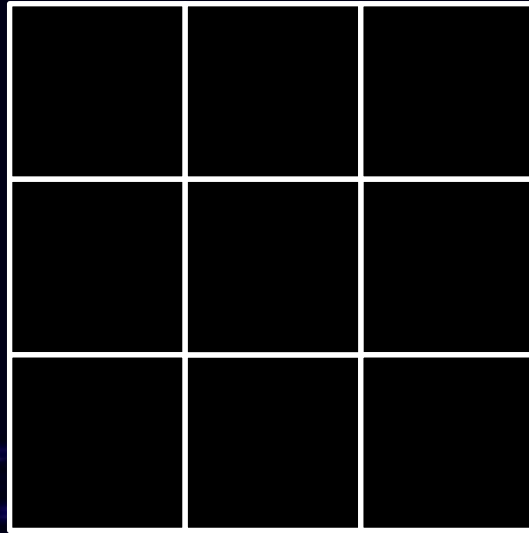
```
DATA(ls_structure) = get_structure( <ls_entity> get ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING eo_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.

LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls
    = (| ls_structure-name | <ls_property_binding> )
    name
    = <ls_property_binding>-name_field
    binding
    = <ls_property_binding>-structure_binding
    structure IS = ls_structure IS ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type-is_key IS abap_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```

Challenges?

```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure WHERE structure-id = ls_structure-id.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.  
  ls_attribute = VALUE #( ls  
    = ( ls_structure-name ) derivative ( )  
    name = <ls_property_binding>-name_field  
    binding = <ls_property_binding>-binding_field  
    structure-id = ls_structure-id ).  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-not_is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

At Risk: Integrated System

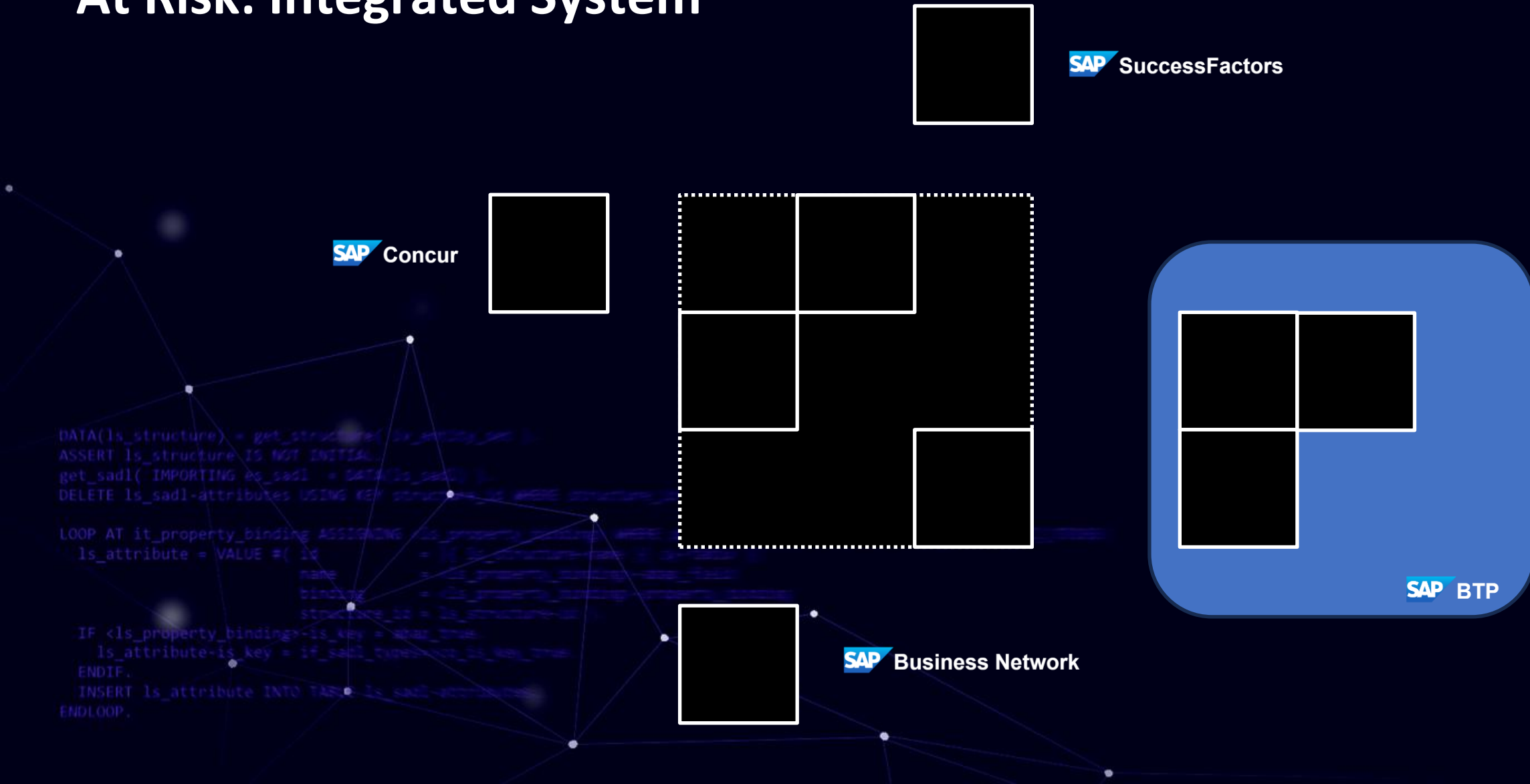


```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING eo_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure = ls_structure.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE  
  ls_attribute = VALUE #( ls  
    name = <ls_property_binding>-name  
    binding = <ls_property_binding>-binding  
    structure_id = ls_structure-id ).  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-not_is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

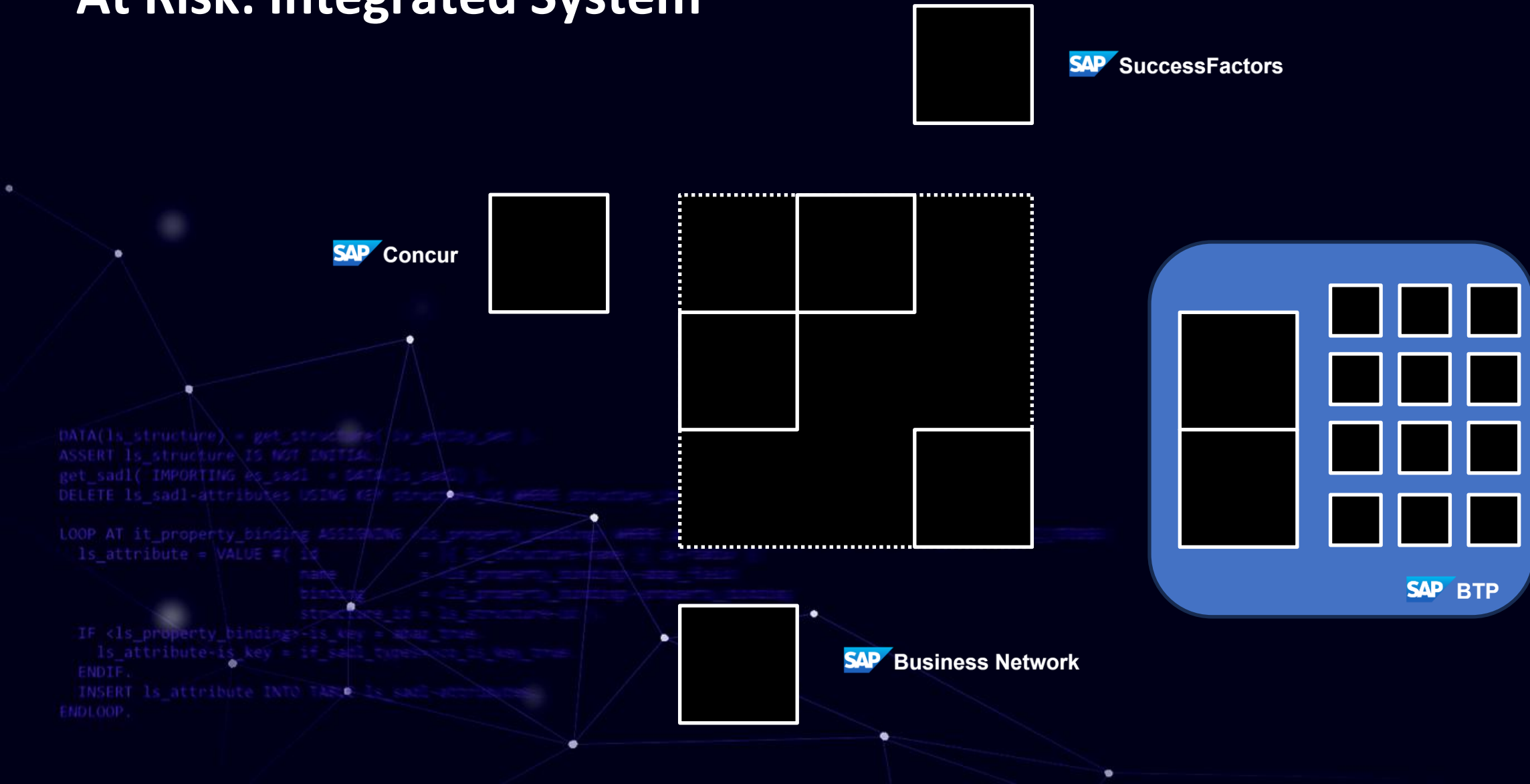
At Risk: Integrated System

```
DATA(ls_structure) = get_structure( ls_entity_get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure WHERE structure = ls_structure.  
  
LOOP AT it_property_binding ASSIGNING ls_property_binding WHERE  
  ls_attribute = VALUE #( ls  
    name      = <ls_structure-name> / <ls_sadl-name>  
    binding   = <ls_property_binding-binding>  
    structure_id = ls_structure-id ).  
  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type_is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

At Risk: Integrated System



At Risk: Integrated System



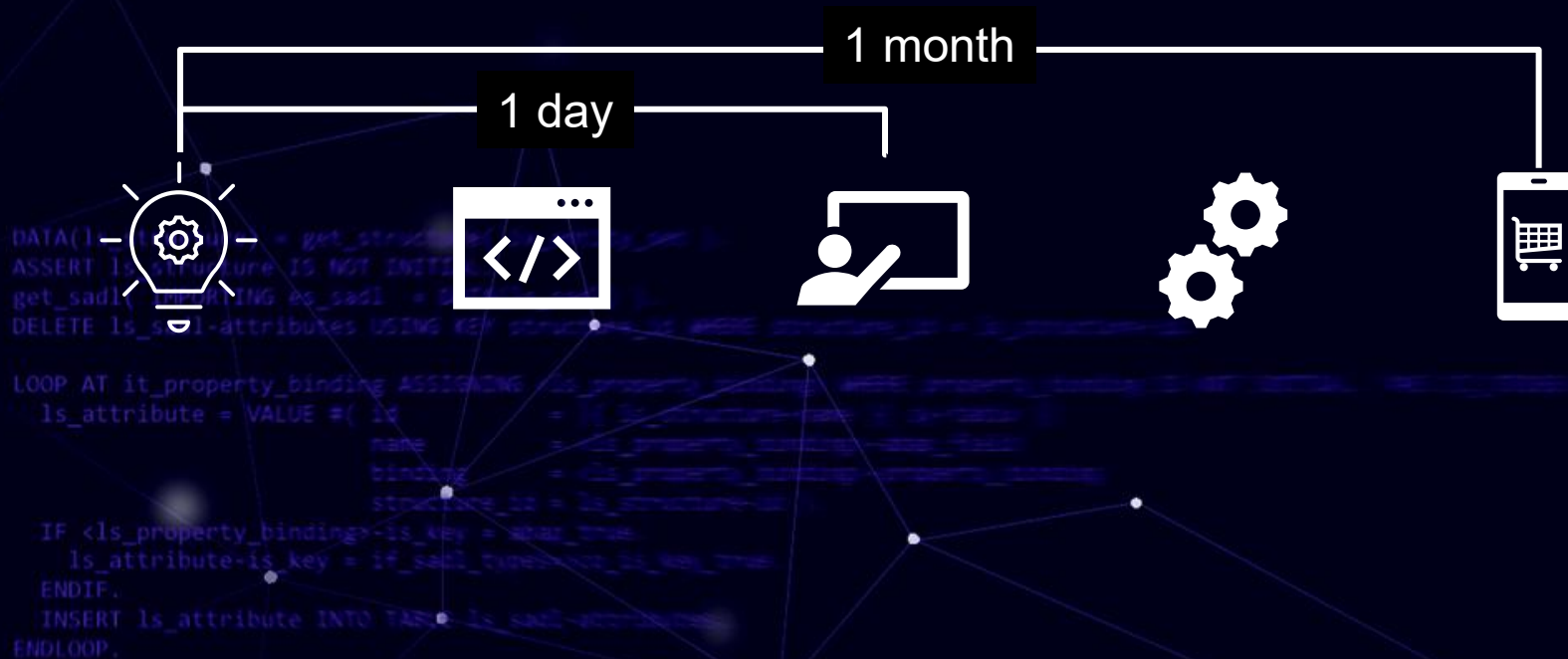


...

SAP IoT: collection of tools
S/4HANA AM for Resource Scheduling
SAP Integrated Product Development
SAP Project and Resource Management

Time from idea to prototype to deploy in production

Once upon a time ...



Time from idea to prototype to deploy in production

Today ...



IDE: Integrated development environment

“Integrated development environments are designed to maximize programmer productivity by providing tight-knit components with similar user interfaces. IDEs present a single program in which all development is done.”

development is done.

IDE: Integrated development environment

“Integrated development environments are designed to maximize programmer productivity by providing tight-knit components with similar user interfaces. **IDEs present a single program in which all development is done.**”

development is done.

IDEs present a single program in which all development is done.

```
DATA(ls_structure) = get_structure( ls_entity_get ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.

LOOP AT it_property_binding ASSIGNING ls_property_binding WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls
    name = <ls_property_binding-name>
    binding = <ls_property_binding-binding>
    structure IS = ls_structure ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type IS is_key_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```


IDEs present a single program in which all development is done.

```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure WHERE structure-id = ls_structure-id.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.  
  ls_attribute = VALUE #( ls  
    name      = <ls_property_binding>-name  
    binding   = <ls_property_binding>-binding  
    structure_id = ls_structure-id ).  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-not_is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

OData v2

OData v4

Classes and CDS Views

ADT

RAP

Fiori App

BAS

Fiori App

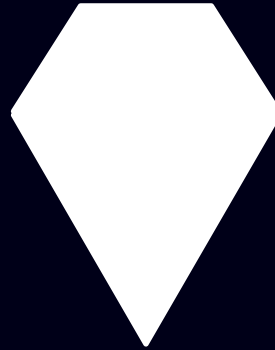
SEGW

SAP Gui

Service Maintenance

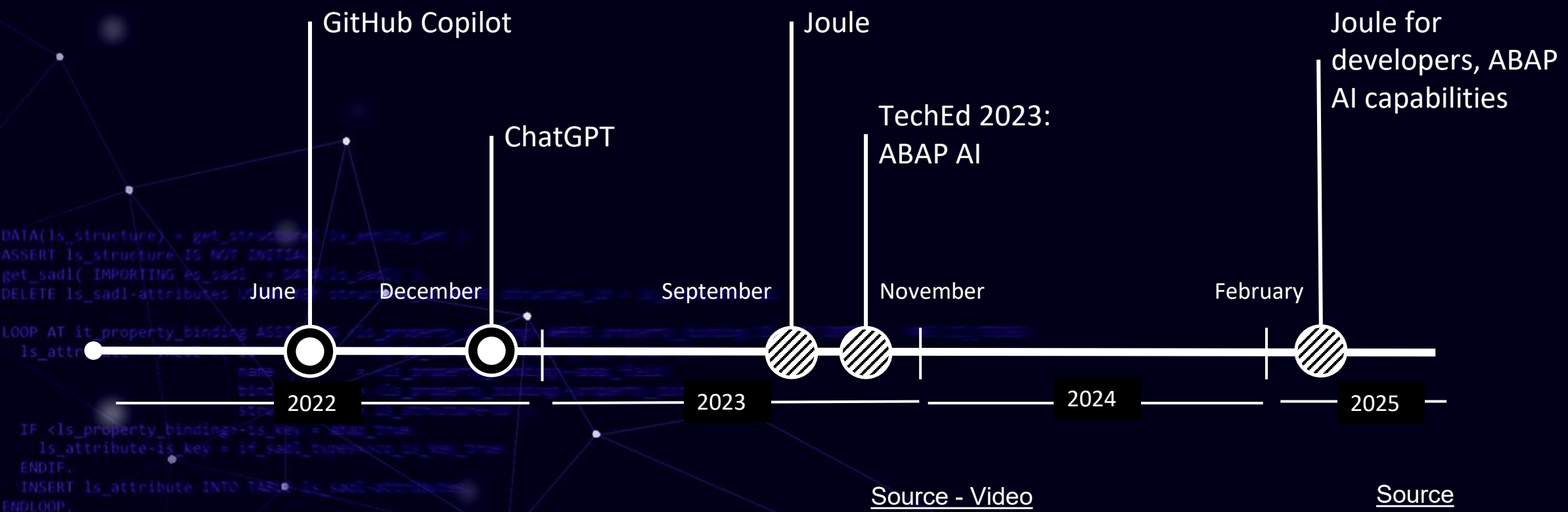


DATA(ls_structure) = get_structure(ls_attrname, get_attrname)
 ASSERT ls_structure IS NOT INITIAL.
 get_sadl(IMPORTING es_sadl = DATA(ls_sadl)).
 DELETE ls_sadl-attributes USING KEY structure WHERE structure_id = ls_structure-id.
 LOOP AT ls_attrname ASSIGNING <ls_property_binding> WHERE property_name = ls_attrname.
 ls_attrname = <ls_property_binding>-name.
 name = <ls_property_binding>-name.
 binding = <ls_property_binding>-binding.
 structure_id = ls_structure-id.
 IF <ls_property_binding>-is_key = abap_true.
 ls_attribute-is_key = if_sadl_type-not_is_key_true.
 ENDIF.
 INSERT ls_attribute INTO TABLE ls_sadl-attributes.
 ENDLOOP.

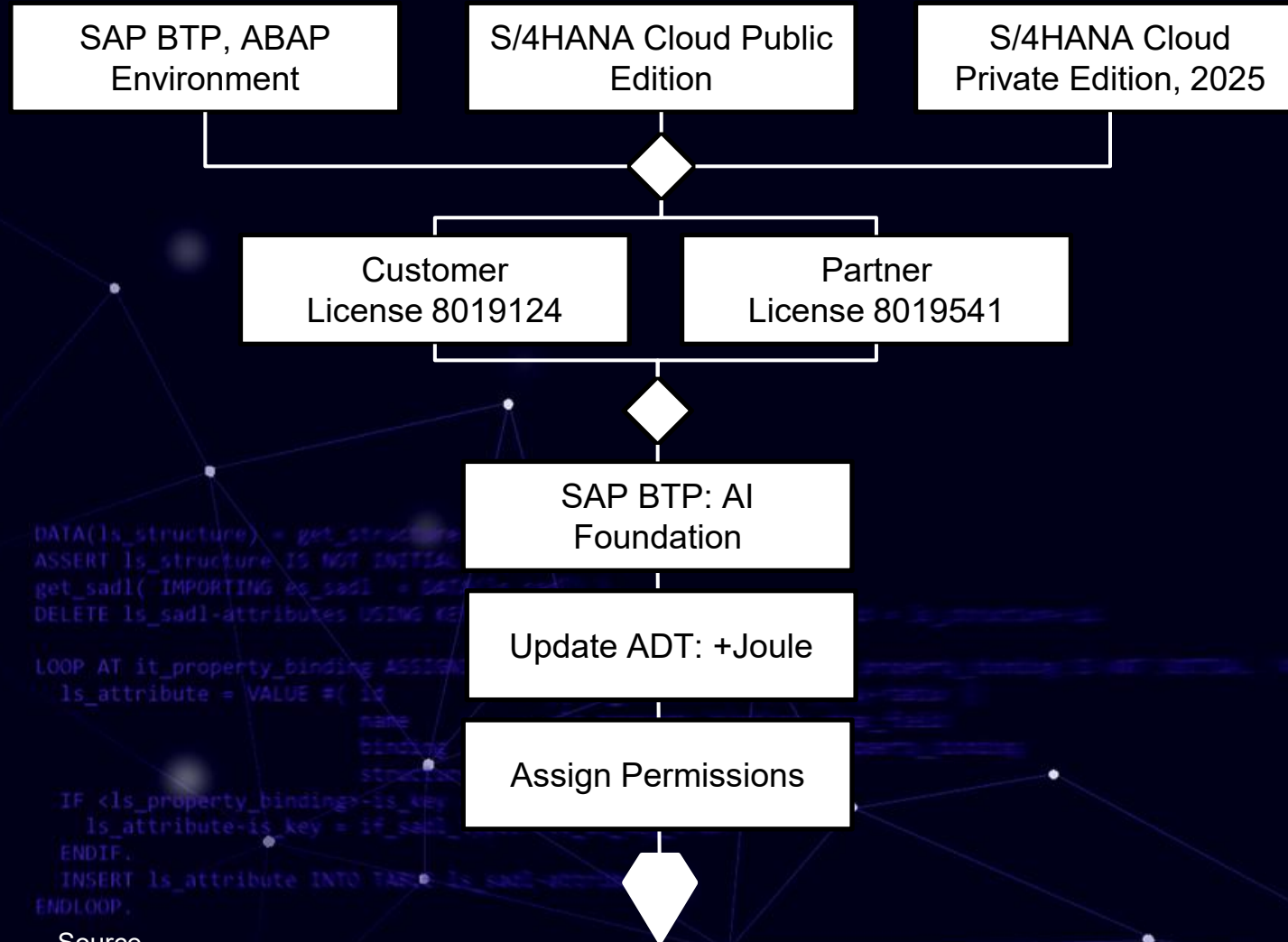


```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING eo_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.  
  ls_attribute = VALUE #( ls  
    = ( ls_structure-name ) derivative ( )  
    name  
    = <ls_property_binding>-name_field  
    binding  
    = <ls_property_binding>-structure_binding  
    structure IS = ls_structure-structure ).  
  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-not_is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

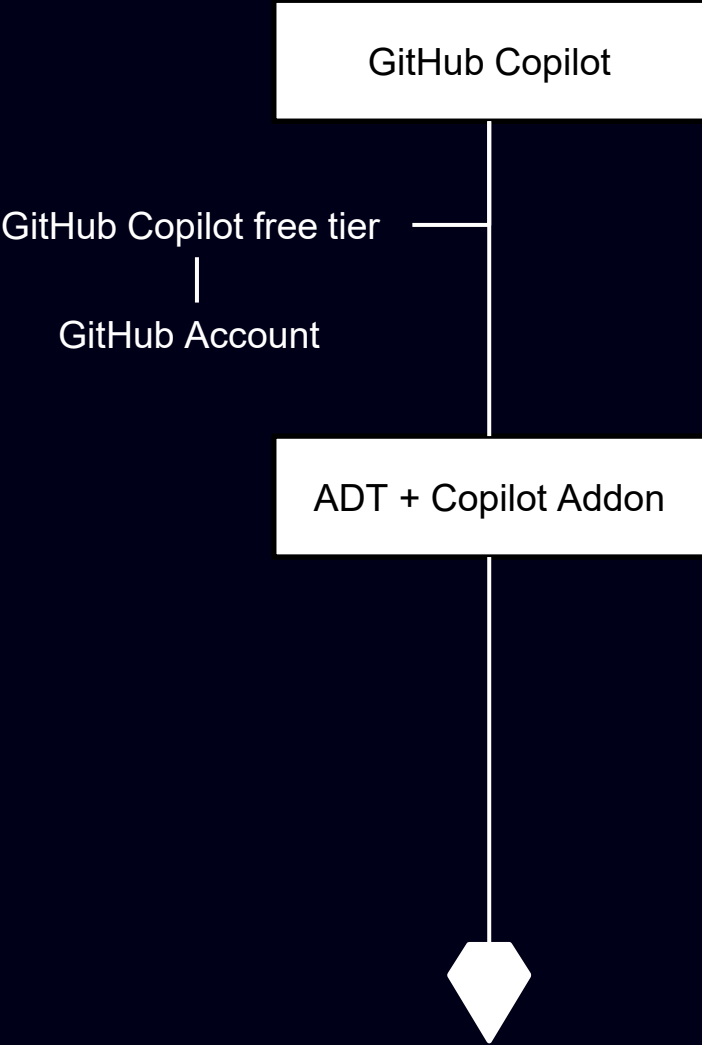
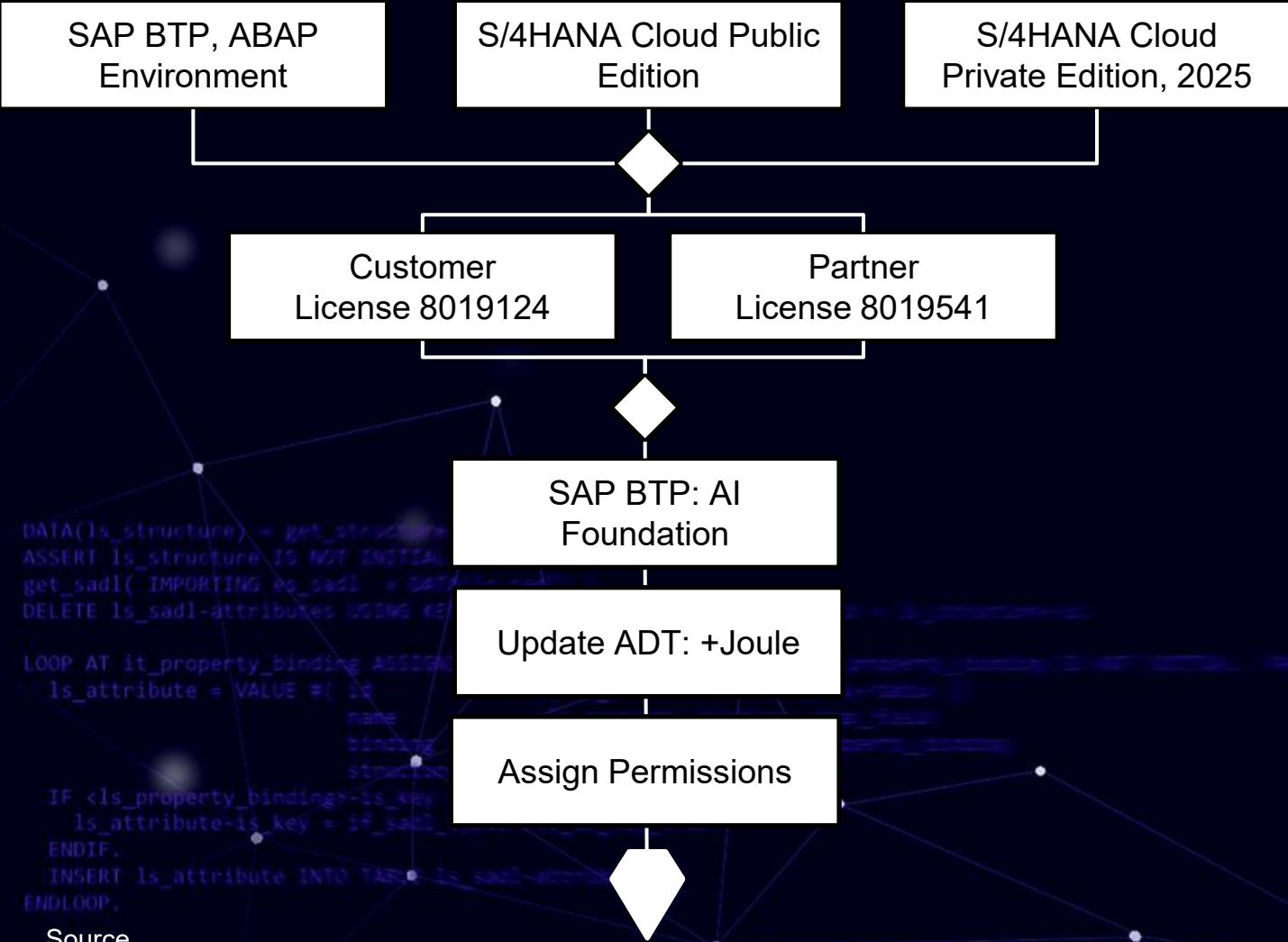
AI adoption



How to get it?



How to get it?



```
DATA(ls_structure) = get_structure
ASSERT ls_structure IS NOT INITIAL
get_sadl( IMPORTING ex_sadl = DATA(ls_sadl) )
DELETE ls_sadl-attributes USING KEY
LOOP AT it_property_binding ASSIGN
  ls_attribute = VALUE #( ls
    name
    binding
    structure
  )
IF <ls_property_binding>-is_key
  ls_attribute-is_key = if_sadl
ENDIF.
INSERT ls_attribute INTO TABLE ls_sadl-attributes
ENDLOOP.
```

VS Code + Copilot + ABAP

CHAT



tobias hofmann

add method to write hello world using if_oo_adt_classrun

ZMYCLASS.ABAP:1-14



GitHub Copilot

> Used 1 reference

```
class zmyclass definition
public
final
create public.
```

```
public section.
    interfaces if_oo_adt_classrun.
protected section.
private section.
endclass.
```

```
class zmyclass implementation.
```

```
method if_oo_adt_classrun~main.
    out->write( 'Hello World' ).
endmethod.
```

```
endclass
```

ZMYCLASS.ABAP X

ZMYCLASS.ABAP

```
1 class zmyclass definition
2 public
3 final
4 create public.
5
6 public section.
7     interfaces if_oo_adt_classrun.
8 protected section.
9 private section.
10 endclass.
11
12 class zmyclass implementation.
13
14 endclass
```

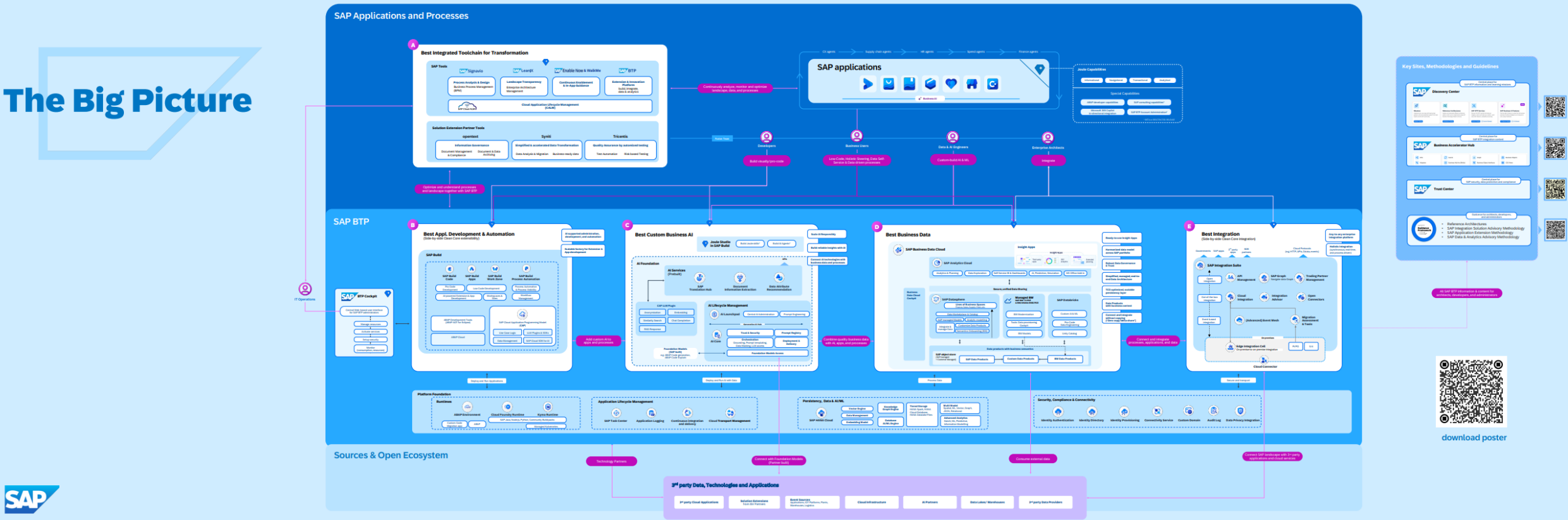
ZMYCLASS.ABAP X

ZMYCLASS.ABAP

```
1 class zmyclass definition
2 public
3 final
4 create public.
5
6 public section.
7     interfaces if_oo_adt_classrun.
8 protected section.
9 private section.
10 endclass.
11
12 class zmyclass implementation.
13
14     method if_oo_adt_classrun~main.
15         out->write( 'Hello World' ).
16     endmethod.
17
18 endclass
```


The Big Picture

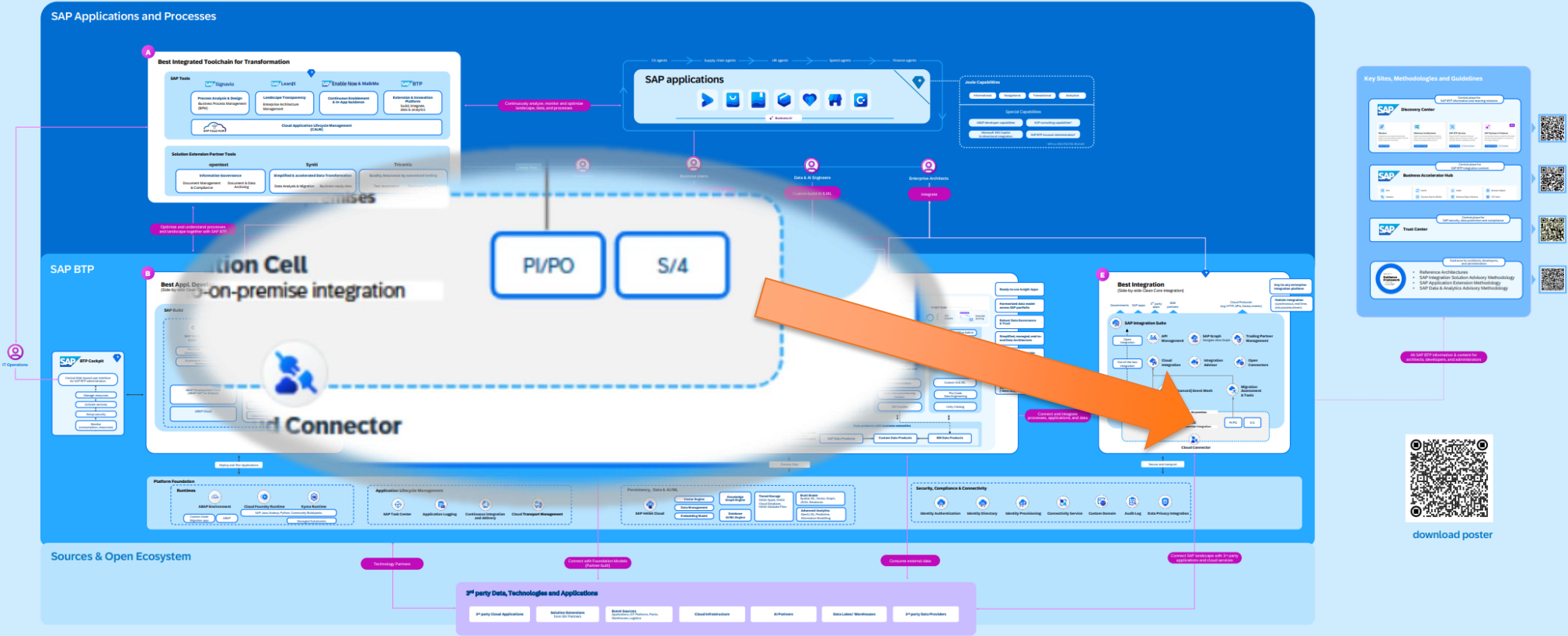
SAP BTP Capabilities Reference Architecture for Best SAP S/4HANA Transformation



```
IF <ls_property_binding>-is_key = 'ABAP' THEN  
  ls_attribute-is_key = 'if_sap_turkey' IS KEY THEN  
ENDIF.  
INSERT ls_attribute INTO TABLE is_sap_attribute  
ENDLOOP.
```

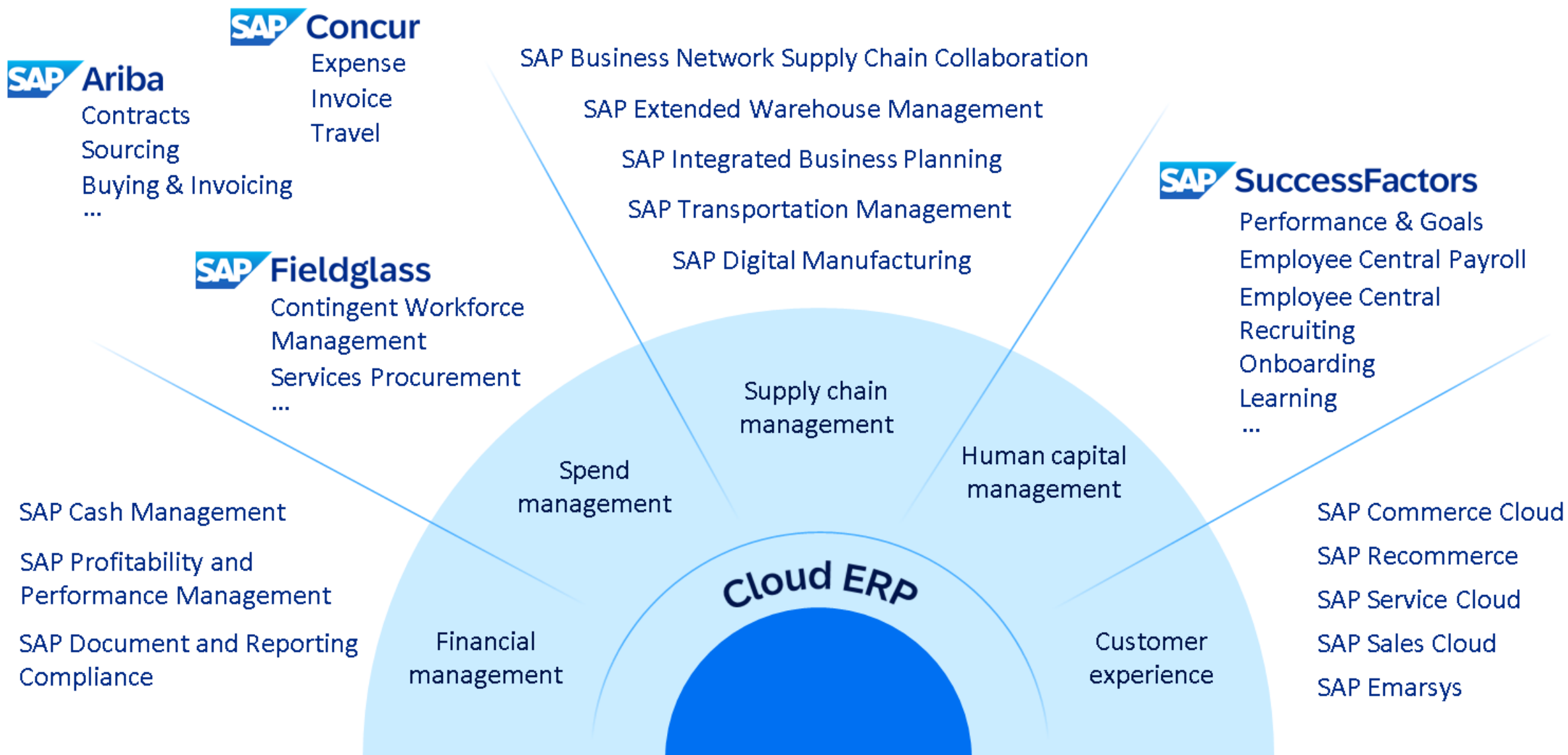
The Big Picture

SAP BTP Capabilities Reference Architecture for Best SAP S/4HANA Transformation



```
IF <ls_property_binding>-is_key = 'ABAP_TRUE'
  is_attribute-is_key = 'if_sap_typed_is_key_TRUE'
ENDIF.
INSERT is_attribute INTO TABLE is_sap_typed_is_key
ENDLOOP.
```

This is not a
comprehensive
list of all SAP
Cloud solutions.



ORACLE

~~SAP Business Network Supply Chain Collaboration~~

~~SAP Extended Warehouse Management~~

SAP Integrated Business Planning

~~SAP Transportation Management~~

~~SAP Digital Manufacturing~~

workday®

Microsoft

Financial
management

Spend
management

Supply chain
management

Human capital
management

cloud ERP

Customer
experience

salesforce

Build

Build something new:
New App
New Feature
...

Code

Code completion, unit tests, explain code, documentation, ...

Evaluate

Analyze apps, usage, navigation flows, performance, A/B tests, ...

Adaption

Customize Standard SAP Fiori Apps based on usage data and requirements, ...

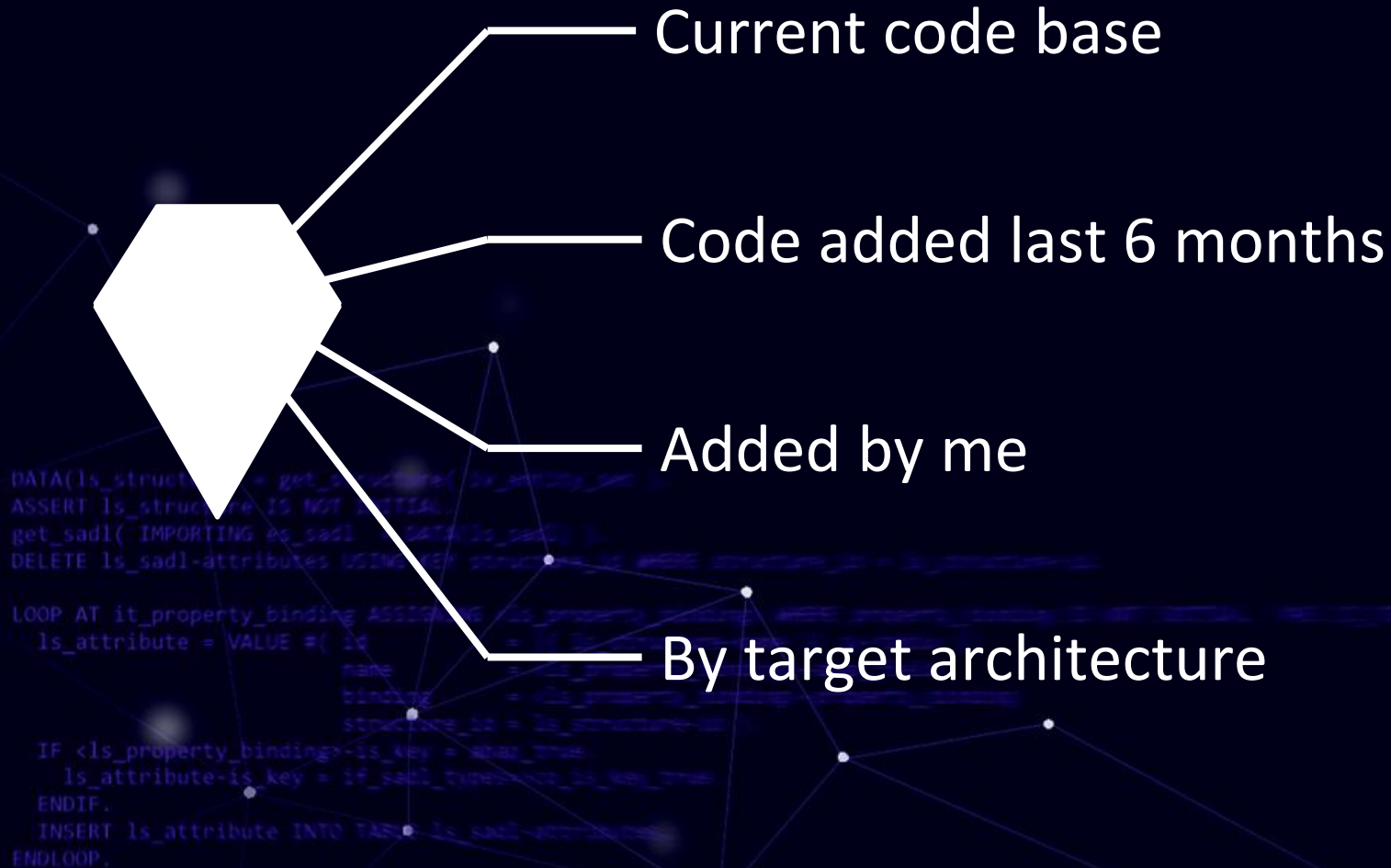
Start

Setup environment,
Initialize Fiori Launchpad,
define initial roles,
content, ...

Transform

Transform current transactions and apps to Fiori, ...

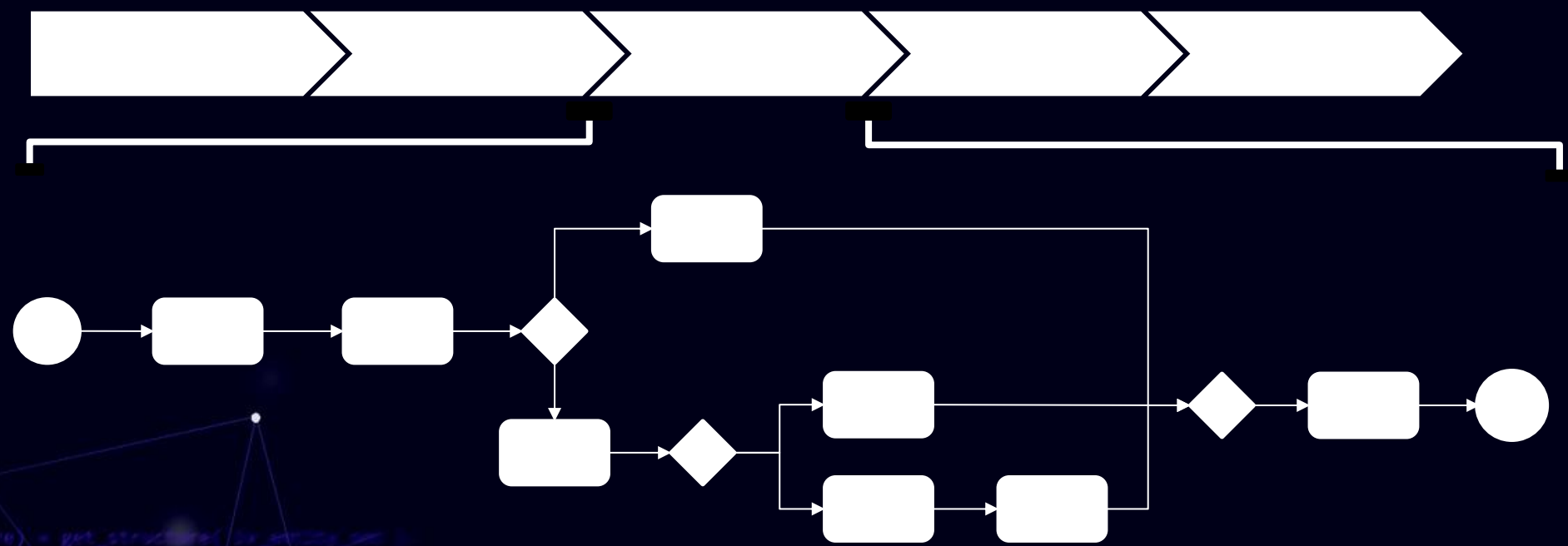
```
DATA(ls_structure) = VALUE #( ... )  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING eo_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes.  
  
LOOP AT it_properties INTO ls_attribute.  
  IF <ls_attribute>-is_key = 'true'.  
    IF <ls_attribute>-is_key = 'true'.  
      ENDIF.  
    INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
  ENDLOOP.
```



AI for
identifying
skill gaps


```
DATA(ls_structure) = get_structure( <ls_entity_get> ).  
ASSERT ls_structure IS NOT NULL.  
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure WHERE structure-id = ls_structure-id.  
  
LOOP AT it_property_binding ASSIGNING es_property_binding.  
  ls_attribute = VALUE #( ).  
  name = <ls_property_binding-property_name>.  
  binding = <ls_property_binding-property_binding>.  
  structure-id = ls_structure-id.  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

Business Process



SAP

Apps



LoB

LoB Apps

2,689 Fiori Apps for S/4HANA Cloud, Private Edition 2023

64 LoB

34 Industry Solutions

656 Roles

```
DATA: lt_structures TYPE TABLE OF structure.
ASSIGN INITIAL.
get_sadl( IMPORTING ex_sadl = DATA(ex_sadl) ).
DELETE ls_sadl-attributes USING KEY structure WHERE structure-id = ls_structures-id.

LOOP AT it_property_binding ASSIGNING ls_property_binding WHERE property_binding-id = ls_structures-id.
  ls_attribute = VALUE #( ls_
    name = ls_property_binding-name
    binding = ls_property_binding-binding
    structure-id = ls_structures-id ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type-is_key.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```

Integrated. One data model.

/s/ /eɪ/ /pi:/ /diˈvɛləpə-/ /ˌkeɪ.pəˈbɪl.ə.ti/

sap de-vel-op-er ca-pa-bil-i-ty

SAP Developer Capability

The ability to realize business requirements in code faster and with less resources compared to a feasible alternative, while adhering company standards like quality, support, usability or security

```
DATA(ls_struct) = ZCL_SAP_DEV_CAPABILITY->GET_INSTANCE().
ASSERT ls_struct IS NOT INITIAL.
get_sadl( IMPORTING ex_sadl = DATA(ex_sadl) ).
DELETE ls_struct.

LOOP AT it_property_bindings ASSIGNING <ls_property_binding>.
  ls_attri-
  binding
  structure_id = ls_struct->id.

  IF <ls_property_binding>-is_key = abap_true.
    ls_attri-is_key = if_sadl_type_is_key( ls_attri ).
  ENDIF.
  INSERT ls_attri INTO TABLE ls_sadl-attributes.
ENDLOOP.
```

DynPro

+

ABAP

+

DDIC

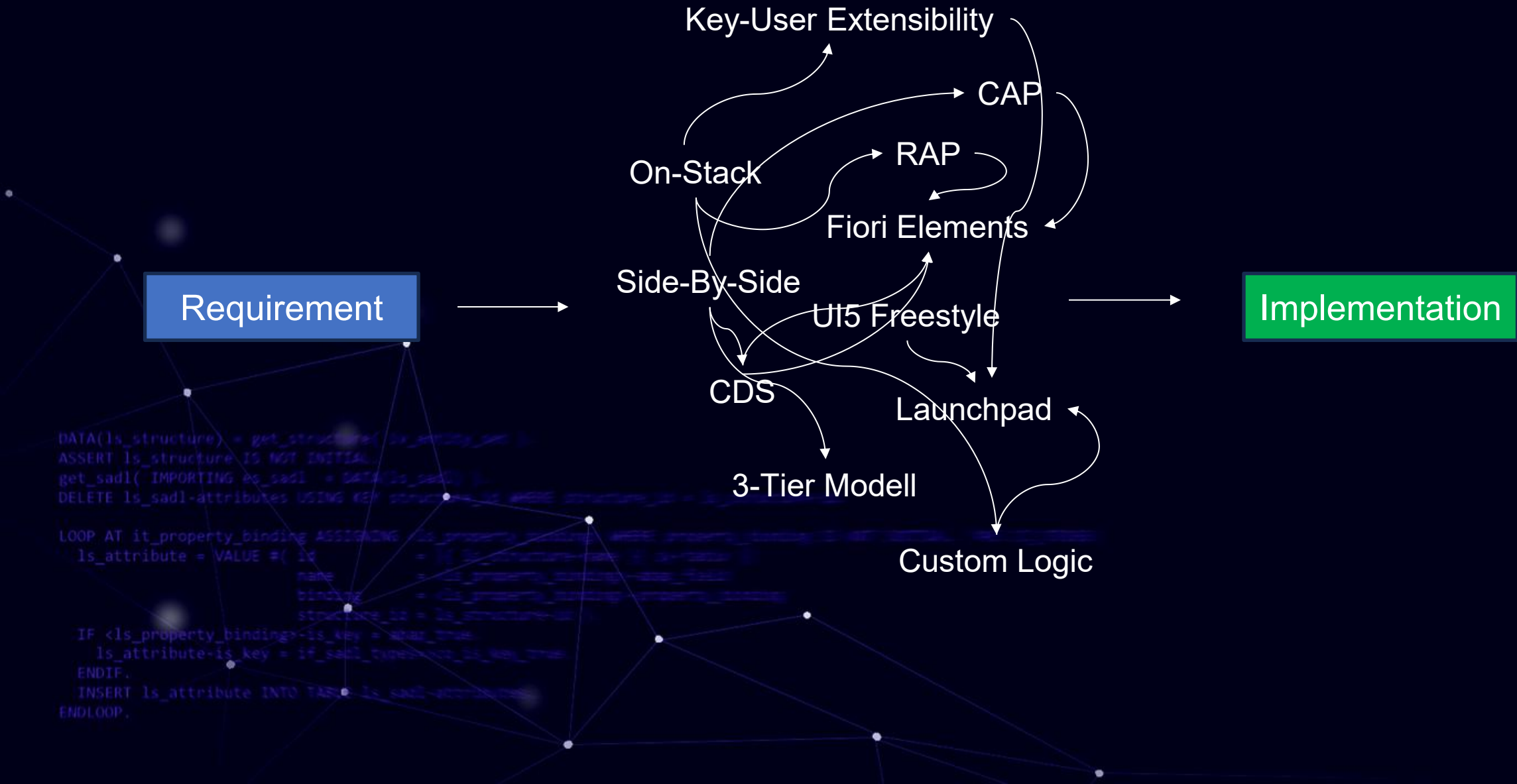
Requirement



Implementation

```
DATA(ls_structure) = get_structure( ls_entity_get ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure IS.

LOOP AT it_property_binding ASSIGNING ls_property_binding WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls
    name = <ls_property_binding-name>
    binding = <ls_property_binding-binding>
    structure IS = ls_structure IS ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type-is_key IS abap_true.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```



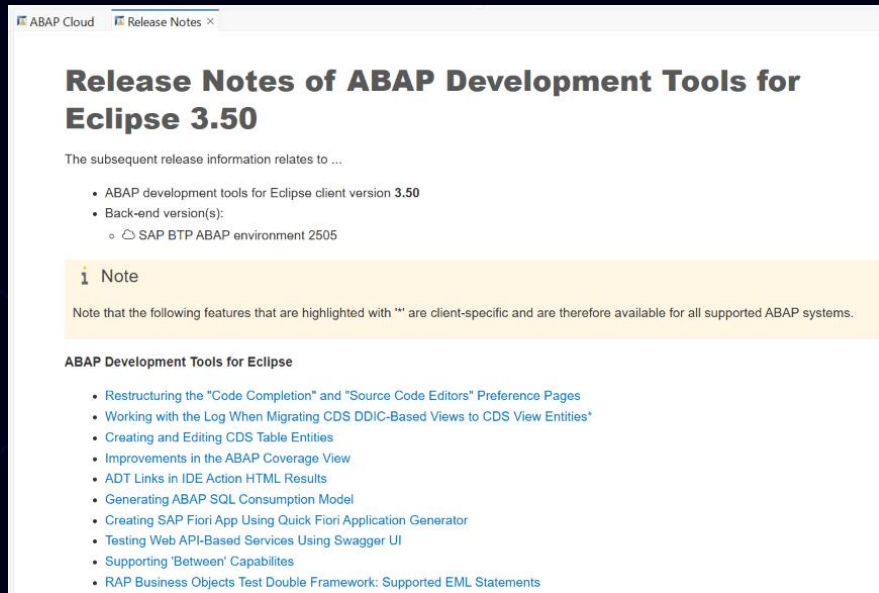
/H

```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING eo_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.  
  ls_attribute = VALUE #( ls  
    = ( ls_structure-name ) derivative )  
    name      = <ls_property_binding>-name_field  
    binding   = <ls_property_binding>-binding_field  
    structure IS = ls_structure IS ).  
  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type IS is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

We have to make sure that SAP developers can be as efficient as in the past

```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.  
  ls_attribute = VALUE #( ls  
    = ( ls_structure-name ) derivative )  
    name  
    = <ls_property_binding>-name_field  
    binding  
    = <ls_property_binding>-structure_binding  
    structure IS = ls_structure-  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-is_key.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

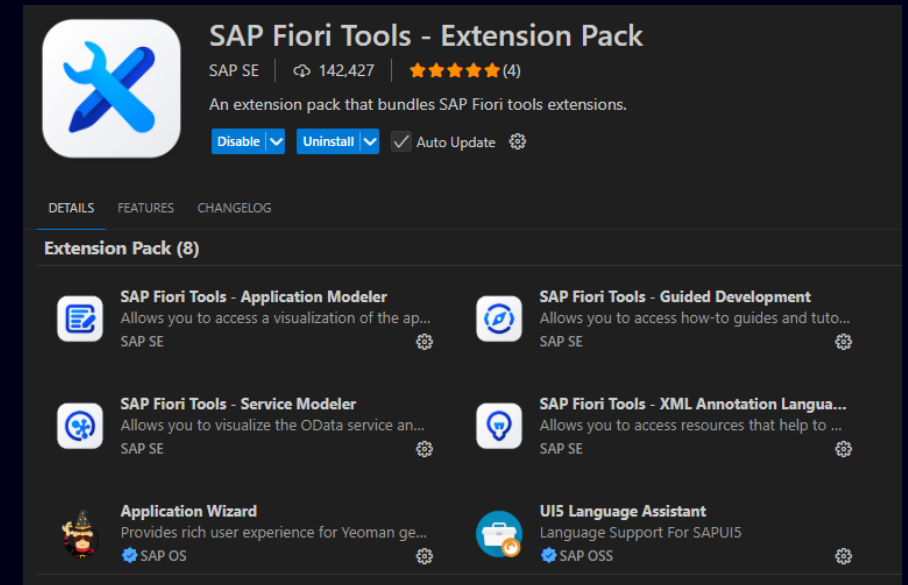

Eclipse + ADT Builder



<https://github.com/tobiashofmann/adt-bundle-builder/>



VS Code + Fiori Tools Builder



<https://github.com/tobiashofmann/vscode-fiori-tools-bundle-builder>

SAP Development Tech Radar

```
DATA(ls_structure) = get_structure( <ls_entity> get ).  
ASSERT ls_structure IS NOT INITIAL.  
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).  
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS <ls_entity>.  
  
LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.  
  ls_attribute = VALUE #( ls_ = ( ls_structure-name ) derivative ( )  
    name = <ls_property_binding>-name_field  
    binding = <ls_property_binding>-property_binding  
    structure_is = ls_structure-is ).  
  
  IF <ls_property_binding>-is_key = abap_true.  
    ls_attribute-is_key = if_sadl_type-is_key_is_key_true.  
  ENDIF.  
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.  
ENDLOOP.
```

SAP Development Tech Radar

2025.06

UI

ADOPT

1. FPM
2. WDI5
3. Web Components

USE

4. Fiori Launchpad
5. Fiori UX
6. MDK
7. Personas
8. UI Flexibility

HOLD

9. ALV
10. Mobile Cards
11. SAP BTP SDK for Android
12. SAP BTP SDK for iOS
13. UI5 freestyle
14. WDA

STOP

15. BSP
16. CRM-WebClient-UI
17. Dynpro
18. J2EE
19. NWBC
20. WDJ

Frameworks

ADOPT

37. ABAP Cloud
38. CUBCO
39. RAP managed draft

USE

40. ABAP Unit
41. AMDP
42. BRF+
43. CAP JS
44. Clean ABAP
45. Custom Fields & Logic
46. Fiori Elements
47. OpenUI5
48. RAP managed
49. RAP unmanaged
50. SAPUI5

HOLD

51. BOPF Fiori
52. CAP Java

STOP

53. BOPF
54. Reports
55. SM30

Technology

ADOPT

21. BTP
22. OData v4
23. Steampunk
24. Workzone

USE

25. CDS View Entity
26. FES embedded
27. OData v2

HOLD

28. CDS Views
29. SOAP

STOP

30. FES hub
31. JCo
32. Neo
33. Portal
34. SAPscript
35. XSA
36. XSC

Tools

ADOPT

56. Cloud ALM
57. gCTS
58. UI5 linter

USE

59. ABAP Cleaner
60. abapGit
61. ADT
62. ATC
63. BAS
64. eCATT
65. UI5 tooling
66. VS Code

HOLD

67. SolMan

STOP

68. Kapsel
69. SAP GUI
70. SE80
71. SEGW
72. WebIDE



Leitmotiv for every decision taken

Make developers efficient

```
DATA(ls_structure) = get_structure( <ls_entity> get ).
ASSERT ls_structure IS NOT INITIAL.
get_sadl( IMPORTING es_sadl = DATA(ls_sadl) ).
DELETE ls_sadl-attributes USING KEY structure IS WHERE structure IS = ls_structure.

LOOP AT it_property_binding ASSIGNING <ls_property_binding> WHERE property_binding IS NOT INITIAL.
  ls_attribute = VALUE #( ls_
    name = <ls_property_binding>-name
    binding = <ls_property_binding>-binding
    structure IS = ls_structure ).
  IF <ls_property_binding>-is_key = abap_true.
    ls_attribute-is_key = if_sadl_type-is_key.
  ENDIF.
  INSERT ls_attribute INTO TABLE ls_sadl-attributes.
ENDLOOP.
```