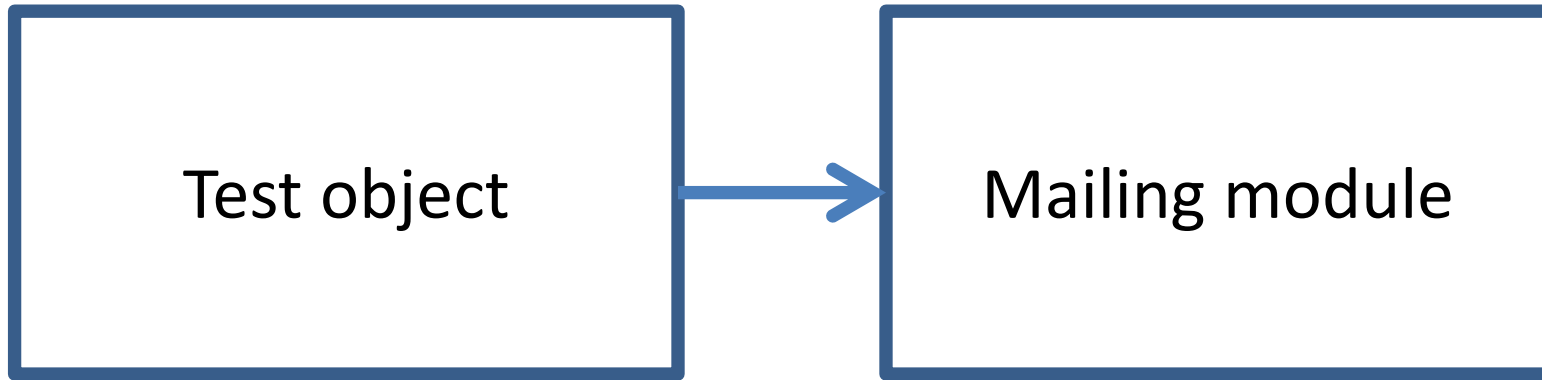


# Mocking in Oracle PL/SQL

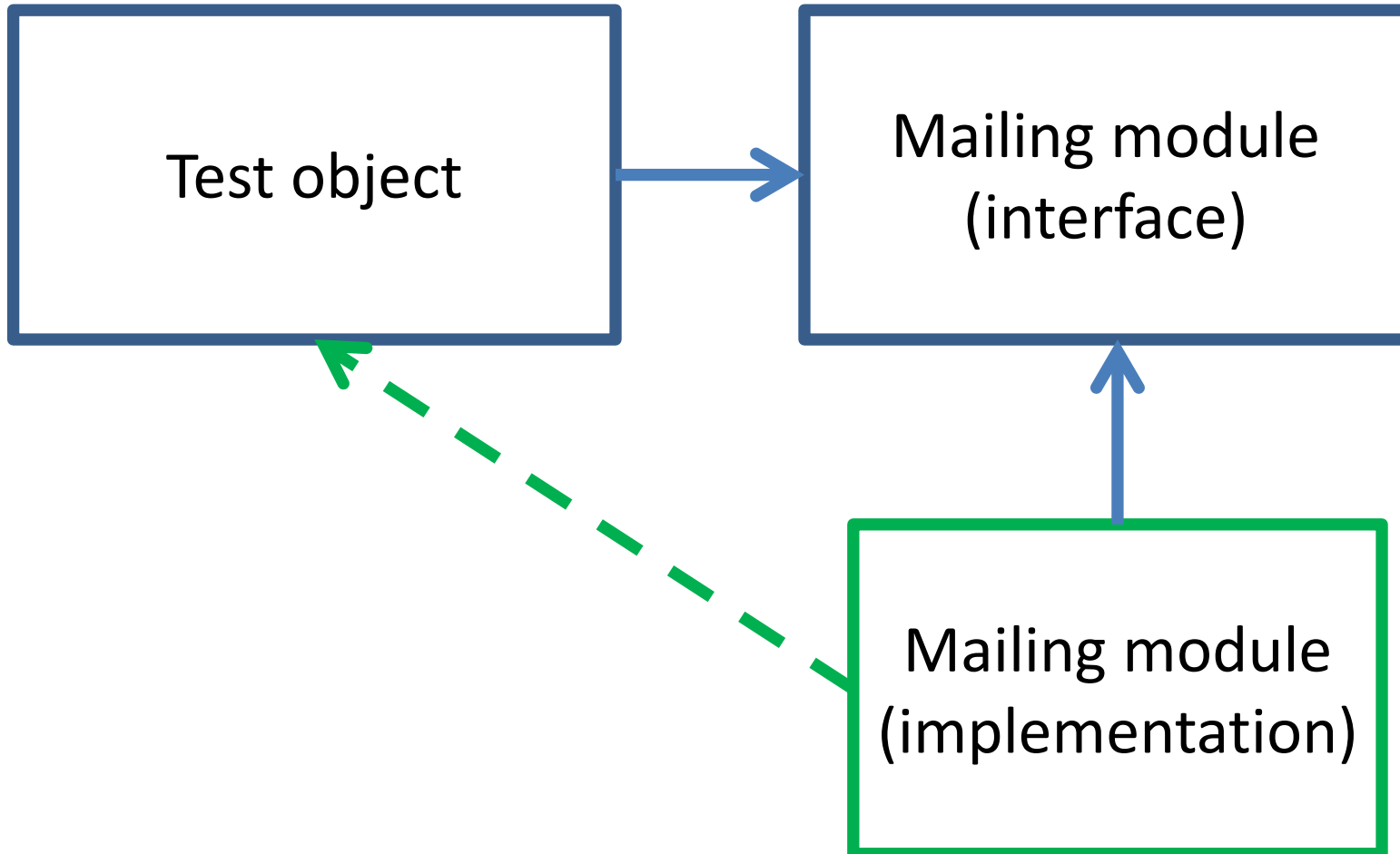
IT Lighting Talks

Maciej Grzybek  
CERN IT-DB

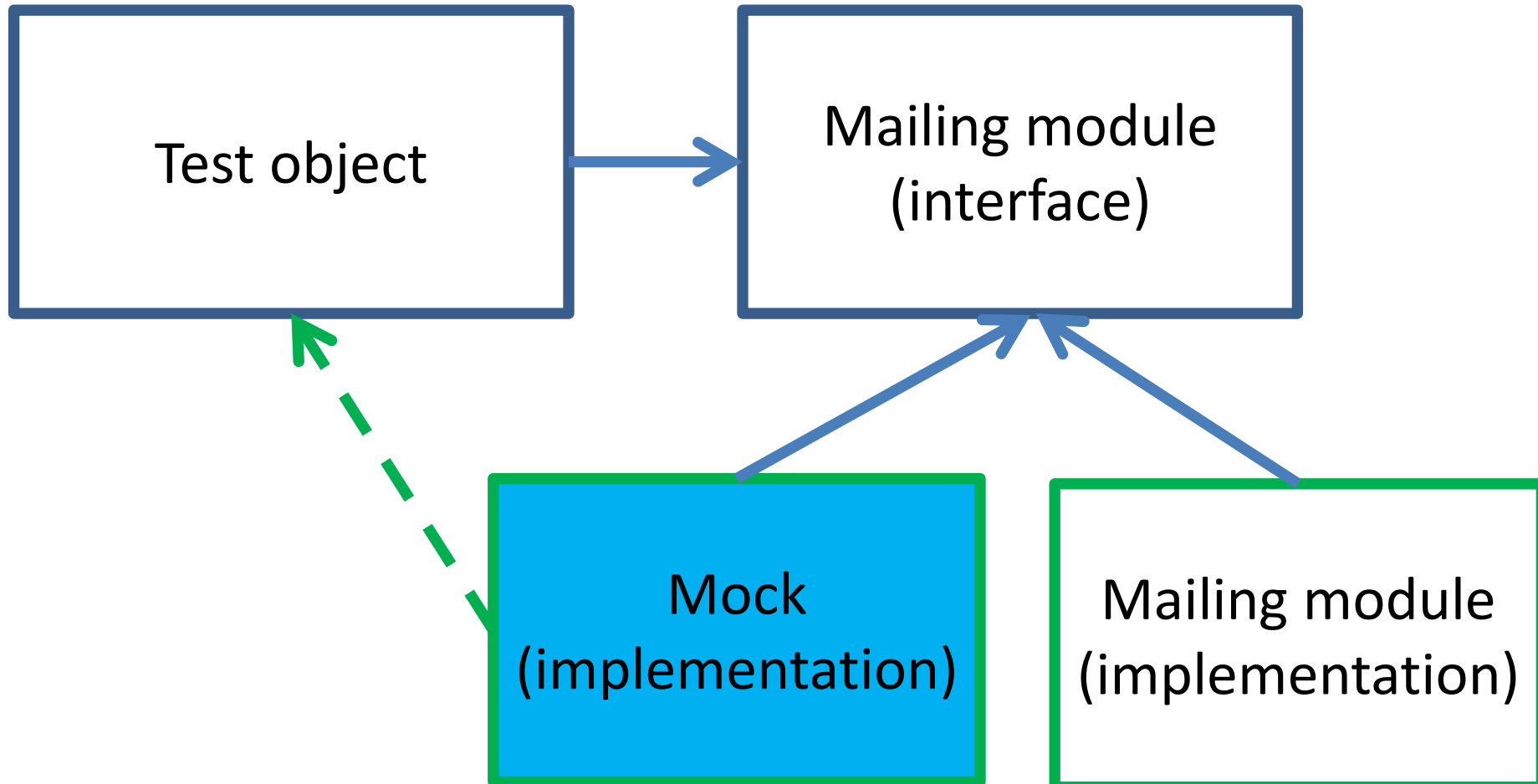
# Mocking – what is this



# Mocking – what is this



# Mocking – what is this

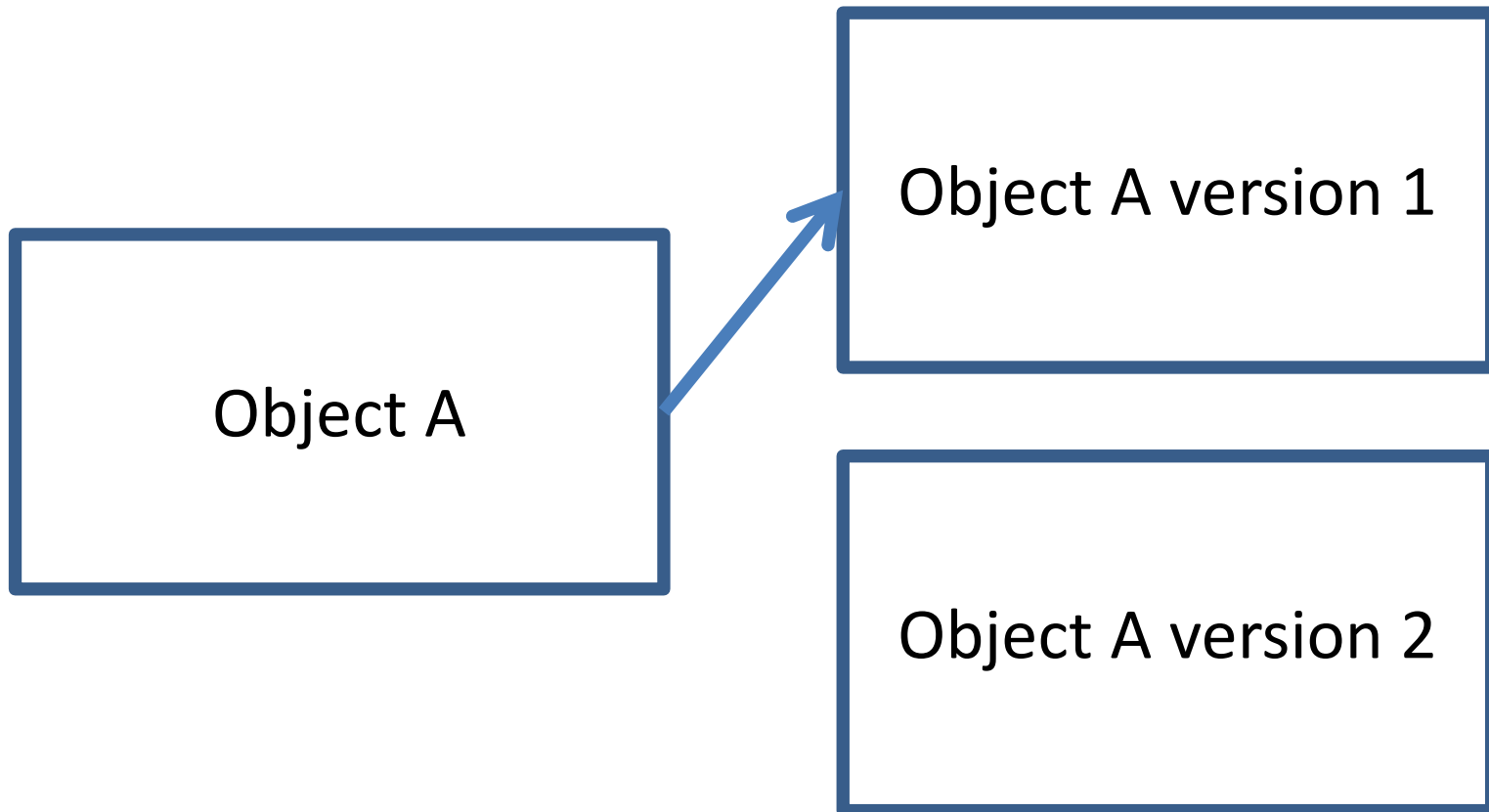


No official support for mocking  
@Oracle DB

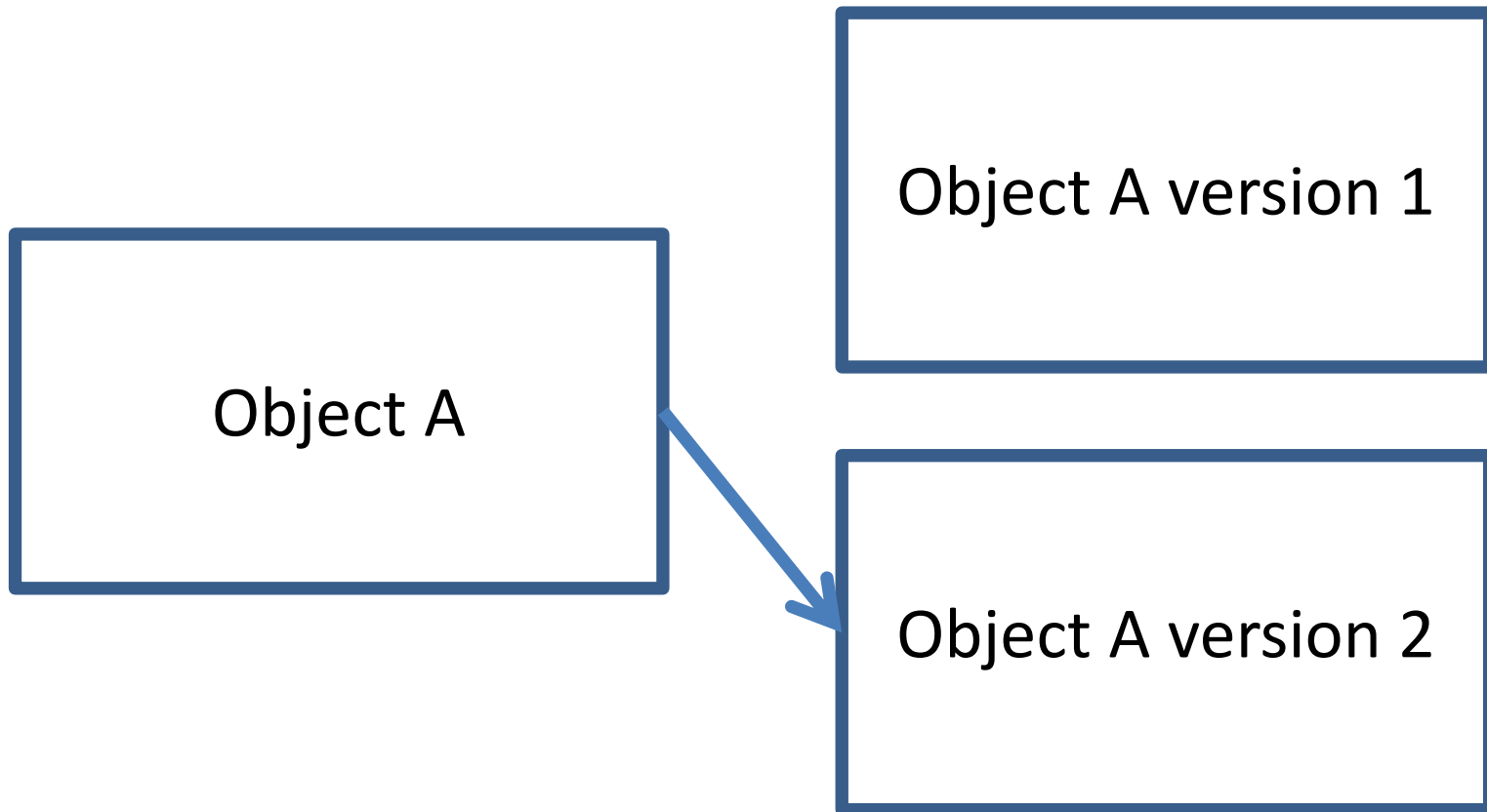
But...

Possible through versioning!

# Versioning @Oracle DB



# Versioning @Oracle DB



# Edition-Based Redefinition – how to

- Prerequisites:
  - ALTER USER user\_name ENABLE EDITIONS
  - GRANT CREATE EDITION
- Version is chosen PER SESSION
  - not affecting others!



# Edition-Based Redefinition continuation

```
CREATE OR REPLACE PACKAGE mailing_module IS
  2   PROCEDURE send_mail(address VARCHAR2, subject VARCHAR2, body VARCHAR2);
  END mailing_module;
  4 /
```

Package created.

```
mocking_test@ITCORE:SQL> █
```

# Edition-Based Redefinition continuation

```
CREATE PROCEDURE test_object IS
BEGIN
mailing_module.send_mail('foo','bar','baz');
END test_object;
5 /
```

Procedure created.

```
mocking test@ITCORE:SQL> █
```

# Edition-Based Redefinition continuation

```
mocking_test@ITCORE:SQL> set serveroutput on
mocking_test@ITCORE:SQL> exec test_object;
Mail sent SUCCESSFULLY!

PL/SQL procedure successfully completed.

mocking_test@ITCORE:SQL> █
```

# Edition-Based Redefinition continuation

```
mocking_test@ITCORE:SQL> CREATE EDITION mock_version;  
Edition created.  
  
mocking_test@ITCORE:SQL> ALTER SESSION SET EDITION=mock_version;  
Session altered.  
  
mocking_test@ITCORE:SQL> █
```

# Edition-Based Redefinition continuation

```
CREATE OR REPLACE PACKAGE BODY mailing_module IS
  PROCEDURE send_mail(address VARCHAR2, subject VARCHAR2, body VARCHAR2) IS
  BEGIN
  4      DBMS_OUTPUT.PUT_LINE('I am pure mock, NOT sending mail!');
      END send_mail;
  END mailing_module;
  7 /
```

Package body created.

mocking\_test@ITCORE:SQL> █

# Edition-Based Redefinition continuation

```
mocking_test@ITCORE:SQL> exec test_object;
```

```
I am pure mock, NOT sending mail!
```

```
PL/SQL procedure successfully completed.
```

```
mocking_test@ITCORE:SQL> █
```

# Edition-Based Redefinition continuation

```
mocking_test@ITCORE:SQL> ALTER SESSION SET EDITION=ORA$BASE;  
Session altered.  
mocking_test@ITCORE:SQL> █
```

# Edition-Based Redefinition continuation

```
mocking_test@ITCORE:SQL> exec test_object;  
Mail sent SUCCESSFULLY!  
  
PL/SQL procedure successfully completed.  
  
mocking_test@ITCORE:SQL> █
```



# Summary

No excuses from writing tests in PL/SQL anymore!