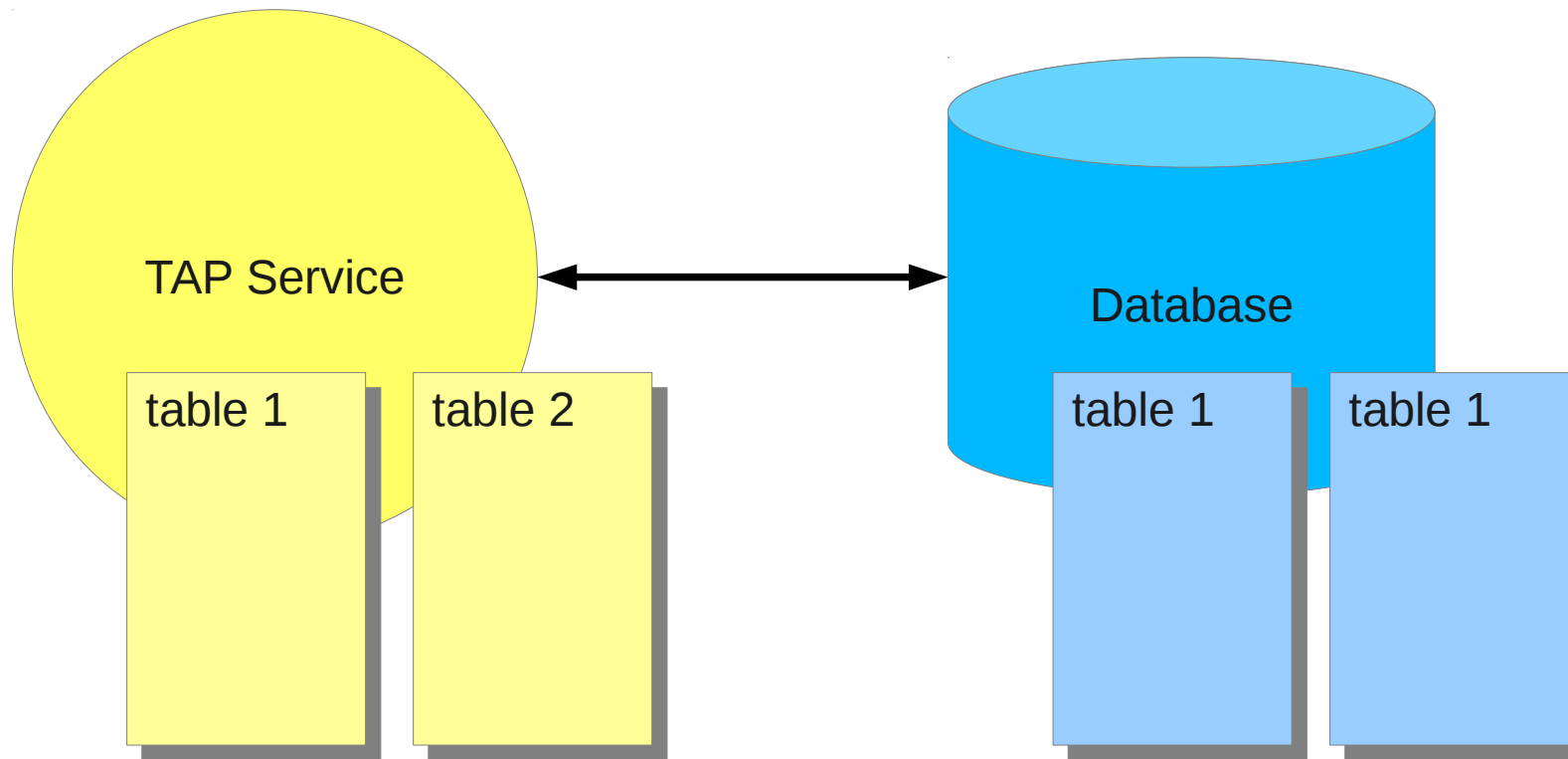


Wide Field Astronomy Unit (WFAU)

Virtual Observatory
Data Access

Federated TAP service



TAP service

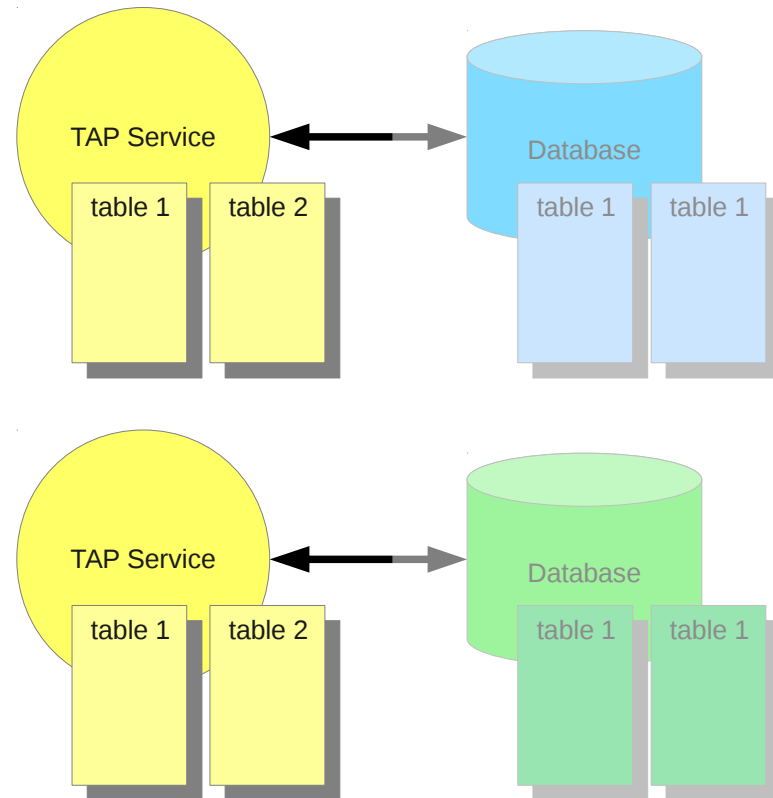
Provides a common abstraction
for database systems.

TAP service

Provides a common abstraction for database systems

Hiding the implementation details of the underlying database system

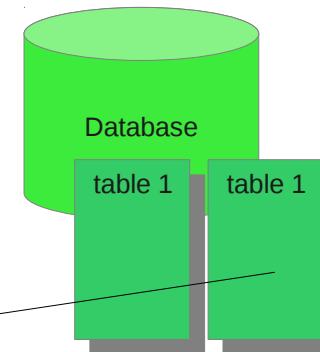
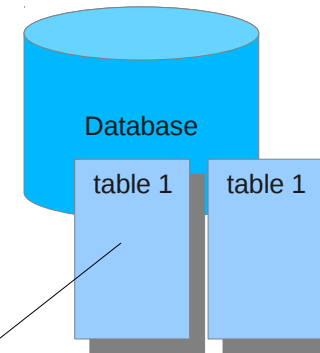
Services from different data providers look and behave the same way.



Developed by EPCC group at
Edinburgh University.

Designed to federate SQL queries
across a set of databases.

```
SELECT
    service1.table1.coumn1,
    service2.table2.coumn3,
FROM
    service1.table1
JOIN
    service2.table2
ON
    ....
WHERE
    ....
```

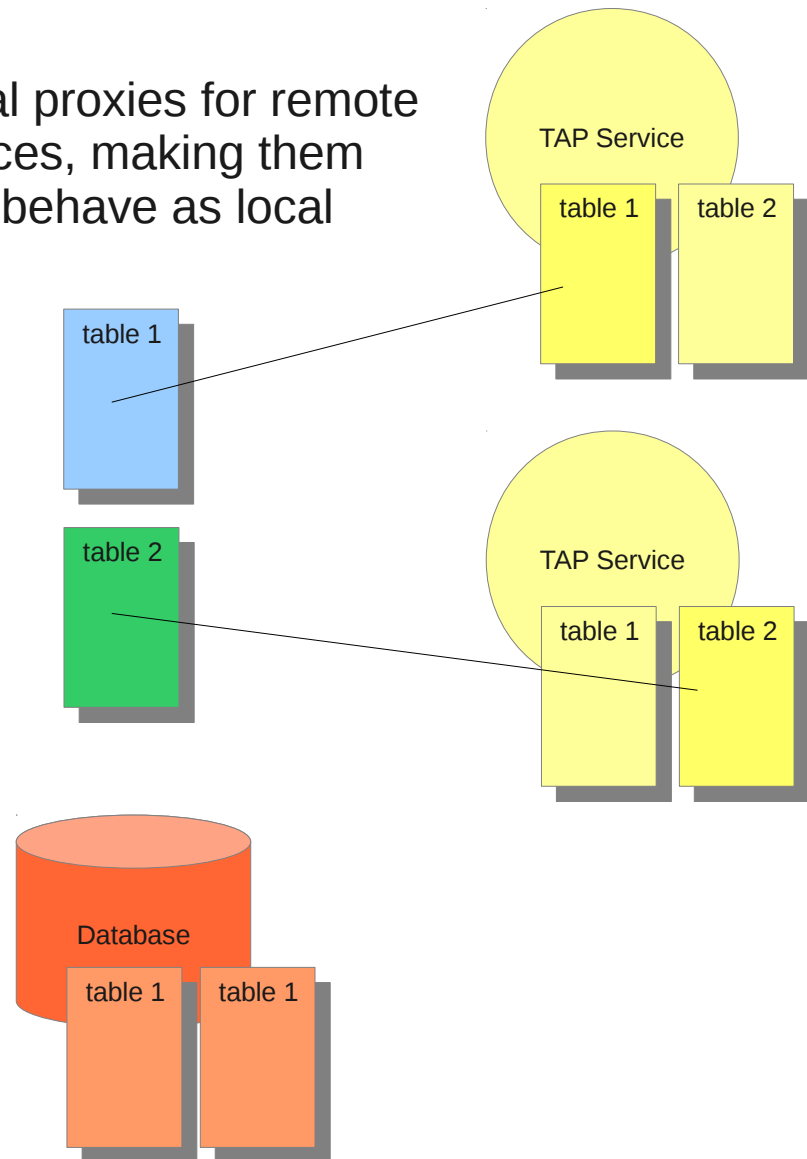


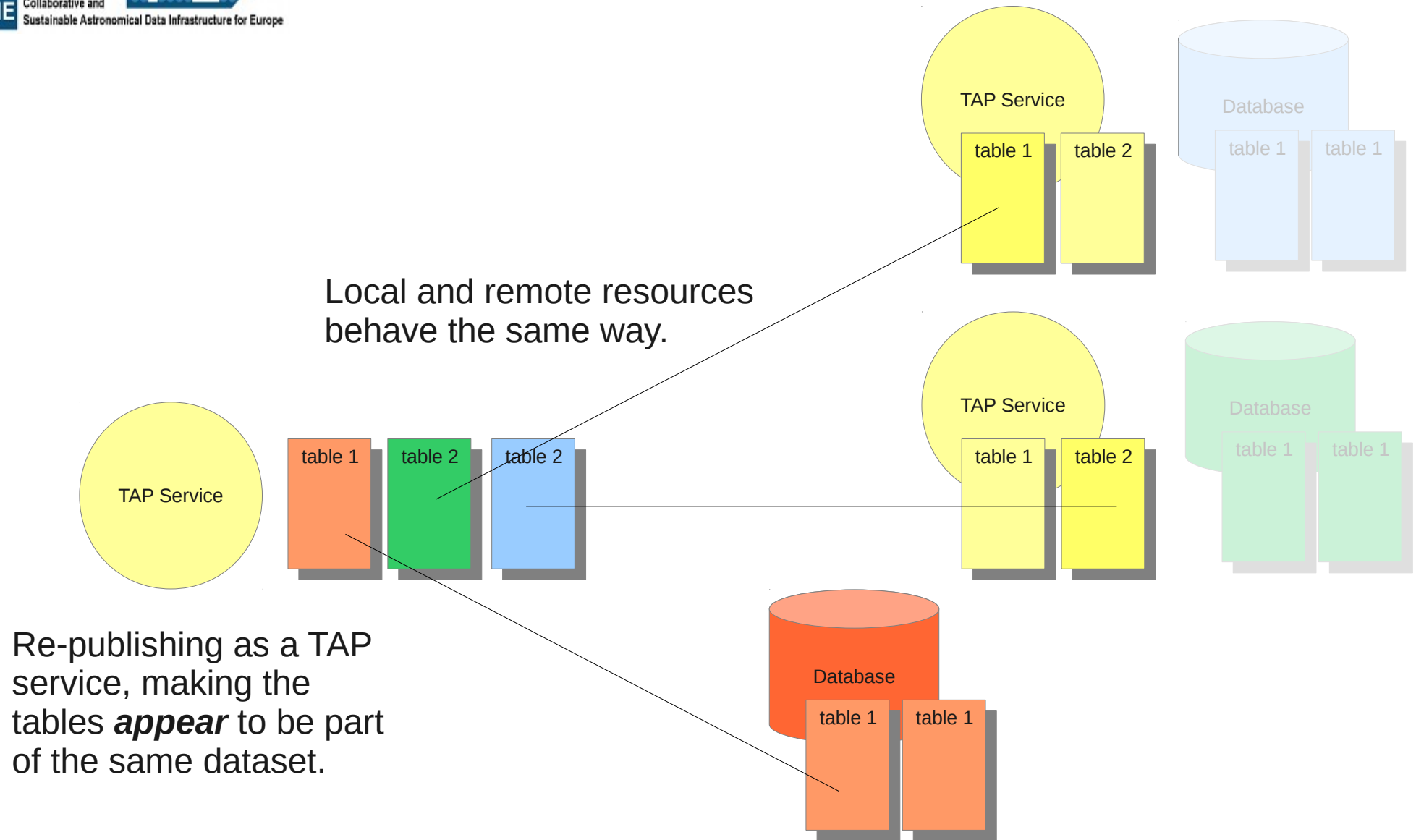
Splits the original SQL
query into sub-queries for
each database.

Using OGSA-DAI to combine
data from local and remote
resources.

```
SELECT
    service1.table1.coumn1,
    service2.table2.coumn2,
    service3.table3.coumn3,
FROM
    service1.table1
JOIN
    service2.table2
ON
    . . . .
WHERE
    . . . .
```

Using local proxies for remote
TAP services, making them
appear to behave as local
tables.





An ADQL query on the constructed TAP service
can span tables from local and remote datasets.

User does not need to know where the data is
located.

Virtual Observatory :-)

