



A Web services based system for data grid

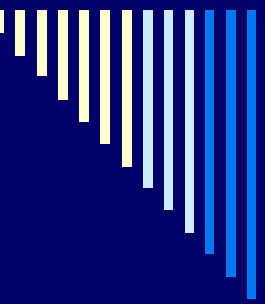
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Outline

- Background
- Goals
- Proposed architecture
- Conclusions
- Future work



Background

- Web Services technology
 - Web Services integrated with Bluetooth technology and Wi-Fi
 - Grid Portal for biomedical imaging
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Goals

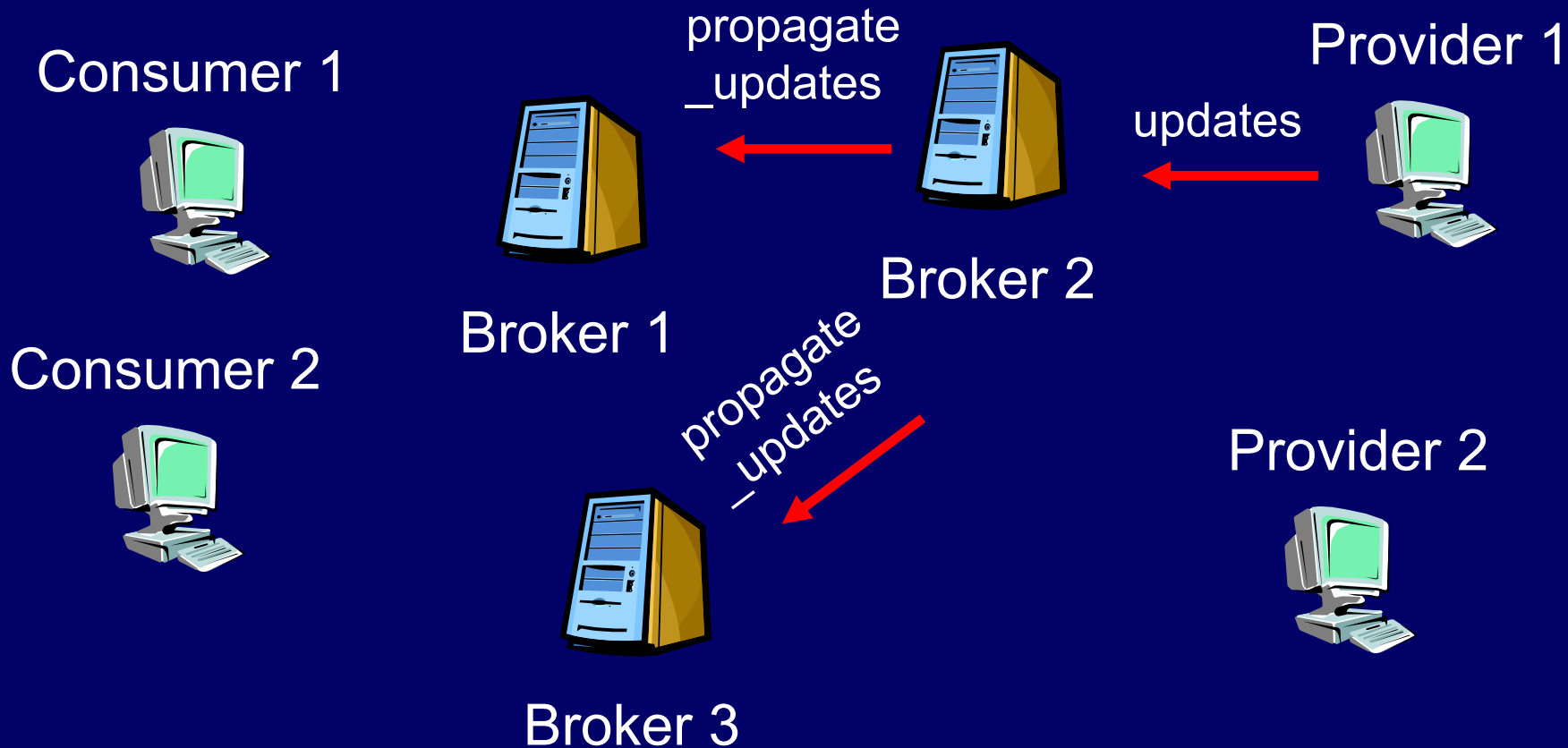
- A data brokerage service for EGSO
(European Grid for Solar Observatories)
- Web services interfaces
- Improvement in data searches using a meta-catalogue



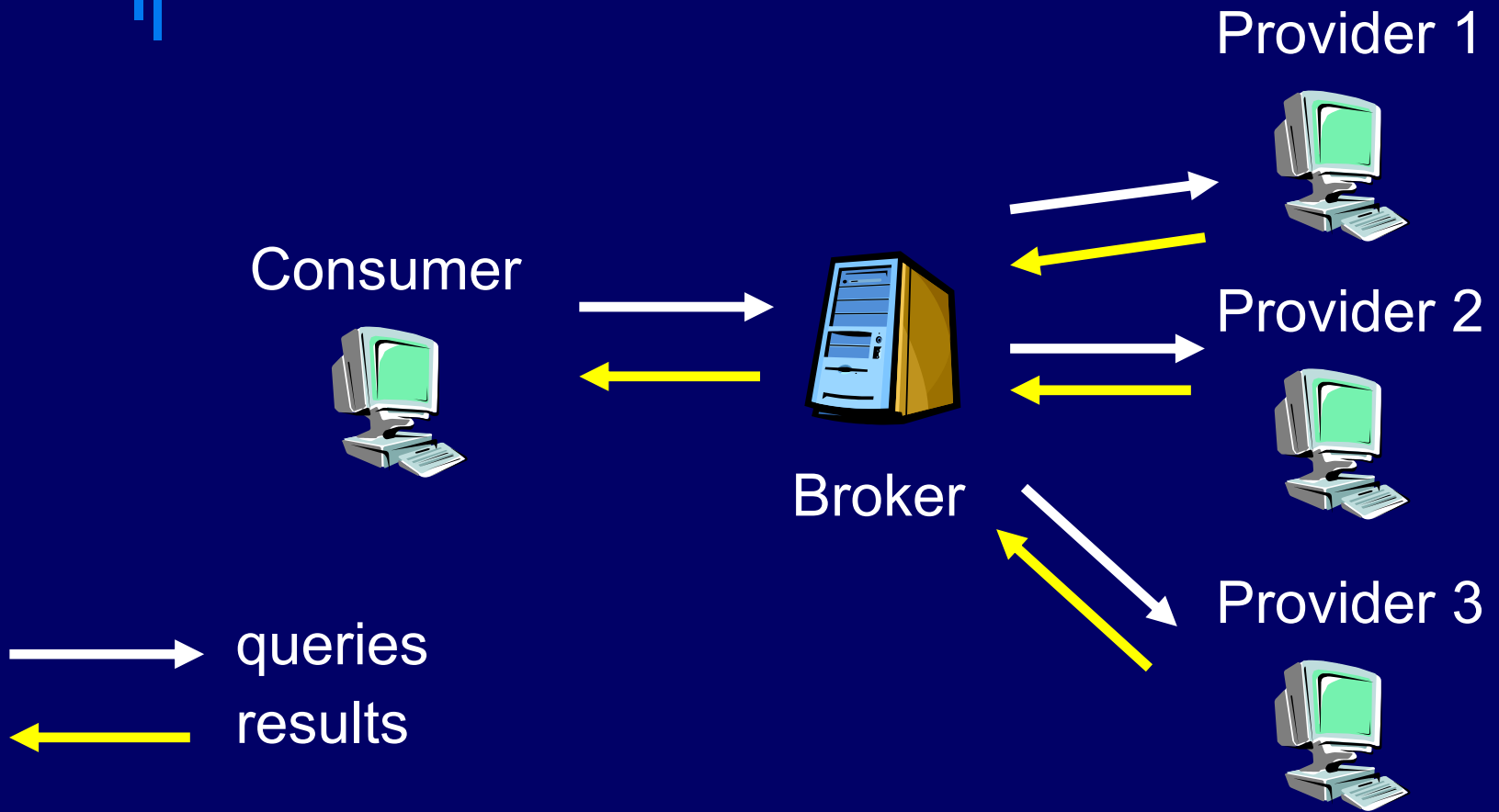
The network I

- The main components are:
 - Consumer : the user that connect to EGSO in order to obtain data
 - Provider : data repository
 - **Broker** : supplies a mechanism to allow consumers to perform data searches, selects the providers that can satisfy a specific request and forwards the query

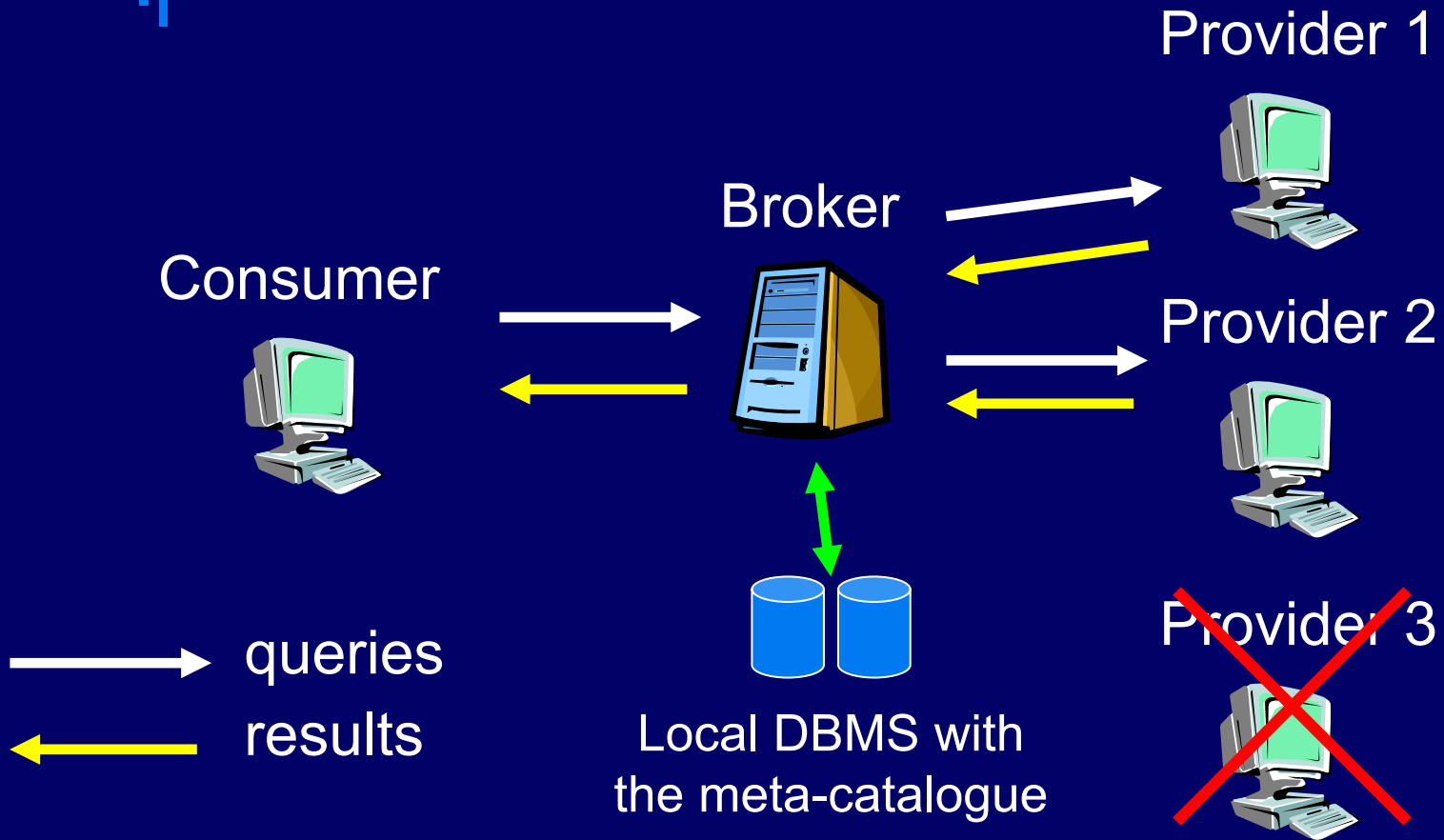
The network II



The network III



The meta-catalogue





Conclusion

- A brokerage system is proposed
- Web services, for their characteristics, are used
 - Platform independence
 - Language independence
- A meta-catalogue allows faster searches



Future work

- A distributed version of the meta-catalogue will be developed
 - A new procedure to propagate consumers queries to other brokers has to be implemented
- An algorithm to manage this distributed meta-catalogue will be used