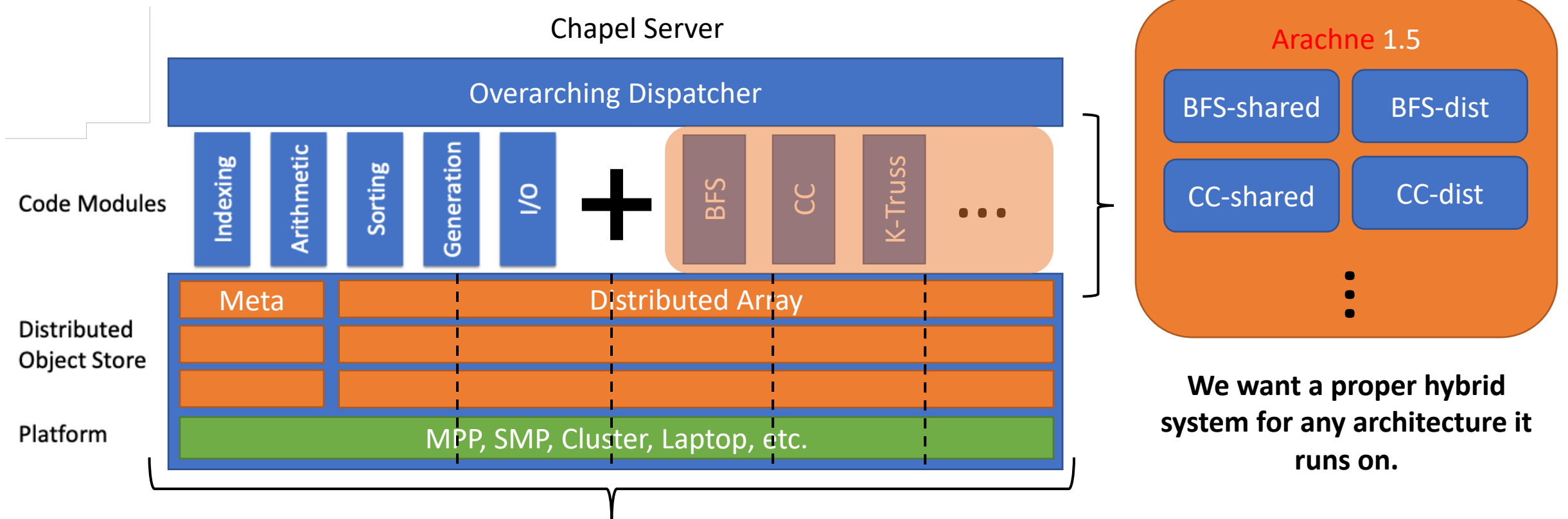


# Interactive Large-Scale Data and Graph Analytics

Conclusion

Oliver Alvarado Rodriguez, Naren Khatwani, **Zhihui Du**, David Bader

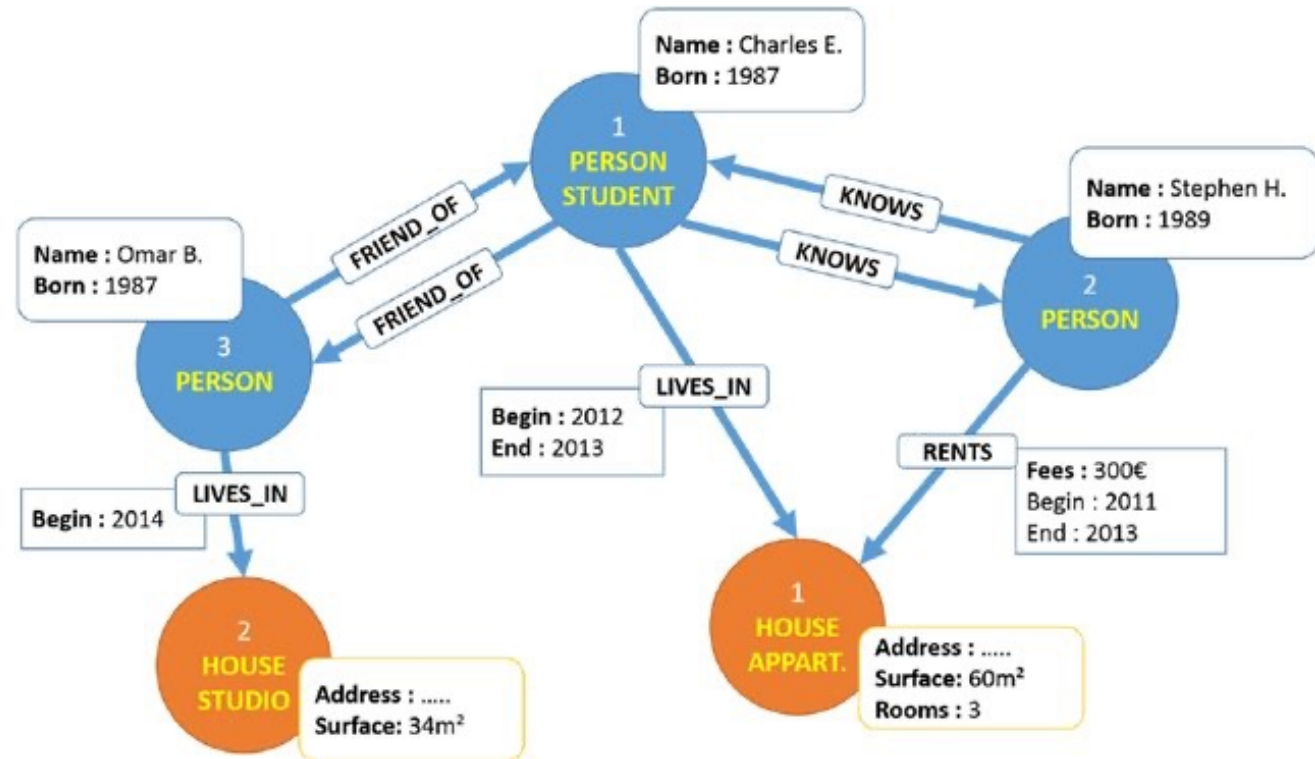
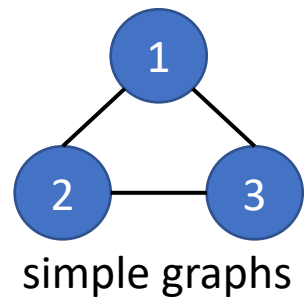
# Scaling **Arachne** from SMPs to MPPs & Clusters



**We want a proper hybrid system for any architecture it runs on.**

MPPs (massively parallel processors) and Clusters → communication is a huge bottleneck  
SMPs (symmetric multiprocessing) → cannot achieve the scalability we want

# Enhancing Arachne (2.0) for Property Graphs



property graphs [Bouhali, Laurent, 2015]

# Conclusion

- We have shown the usability of **Arkouda** for large-scale data analysis.
- We have shown proof of concept of **Arachne** through breadth-first search, truss analytics, connected components, etc.
- We have outlined our goals of fleshing out **Arachne** to be a hybrid solution for (property) graph analysis scaling from SMPs to MPPs and clusters
- We have outlined the blueprint for the future of **Arachne**.

Thank You 😊  
Questions?