

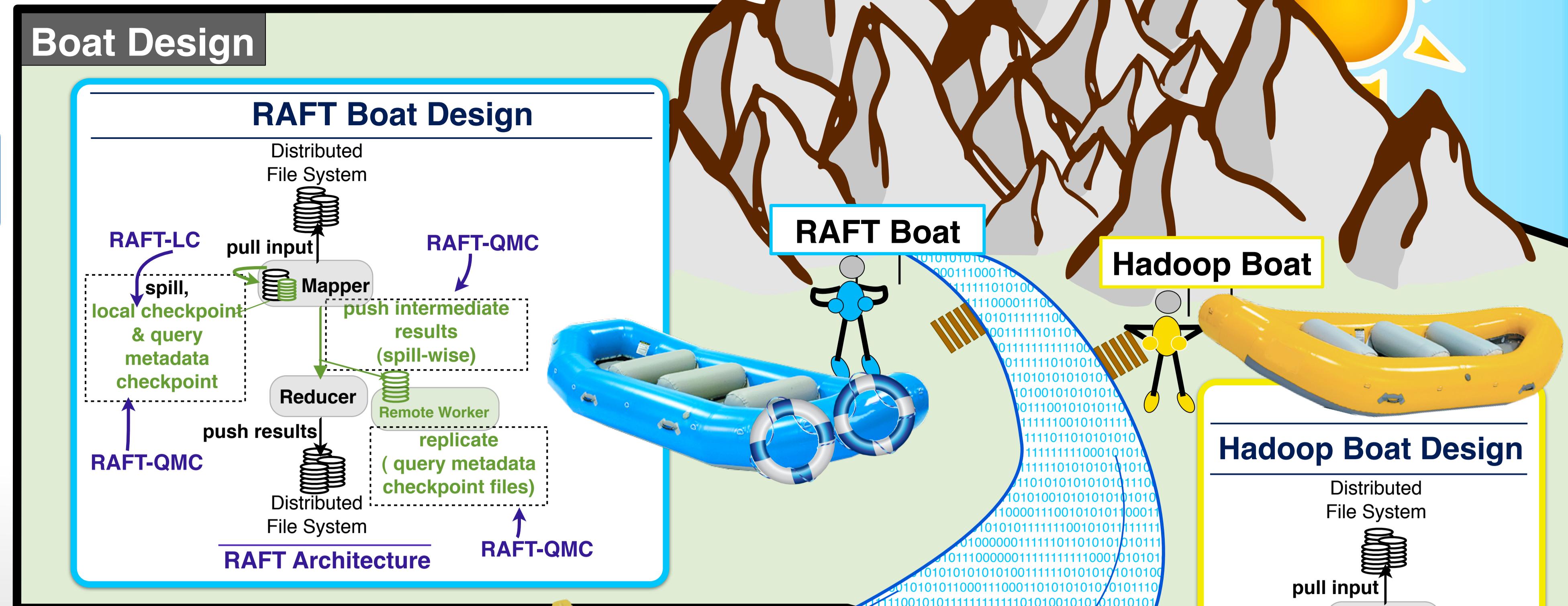
Saarland RAFT Boats

Designers:

Jorge Quiané, Christoph Pinkel, Jörg Schad, Jens Dittrich

Interested in RAFTing through dangerous rivers faster?

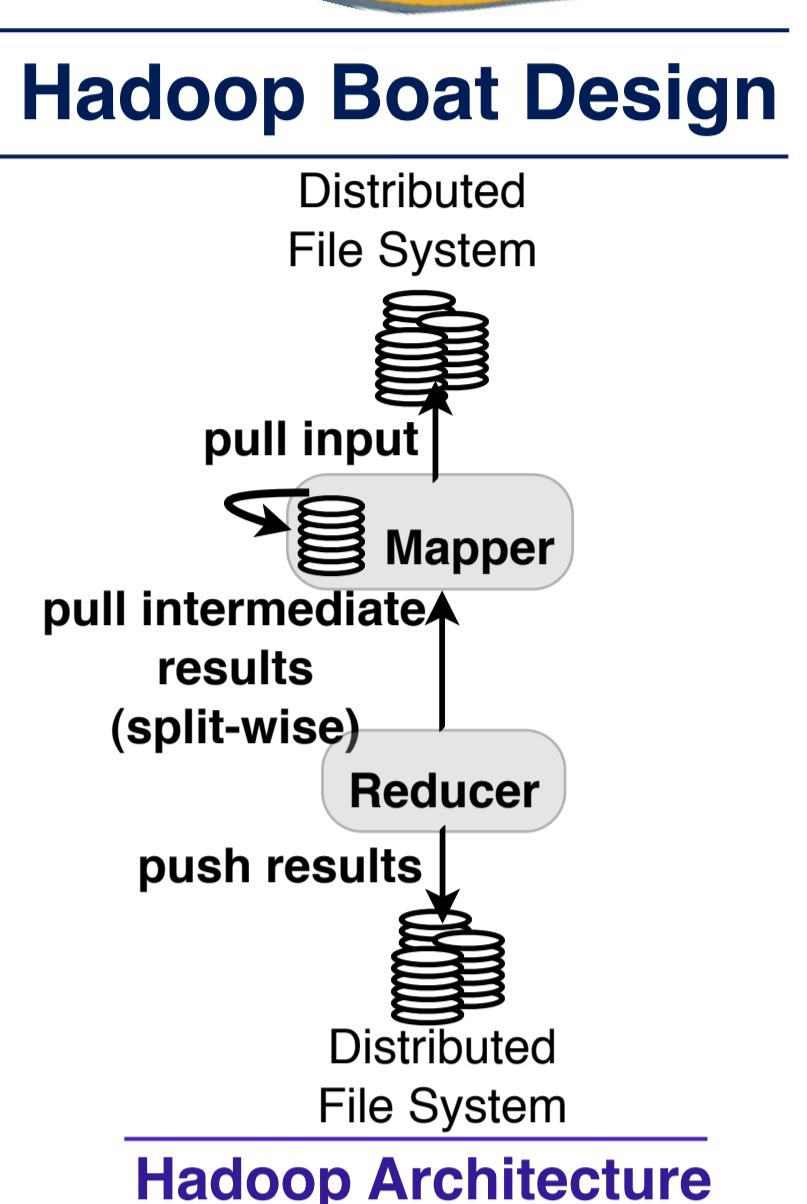
Then try out our RAFT boat design



Cheap Insurance

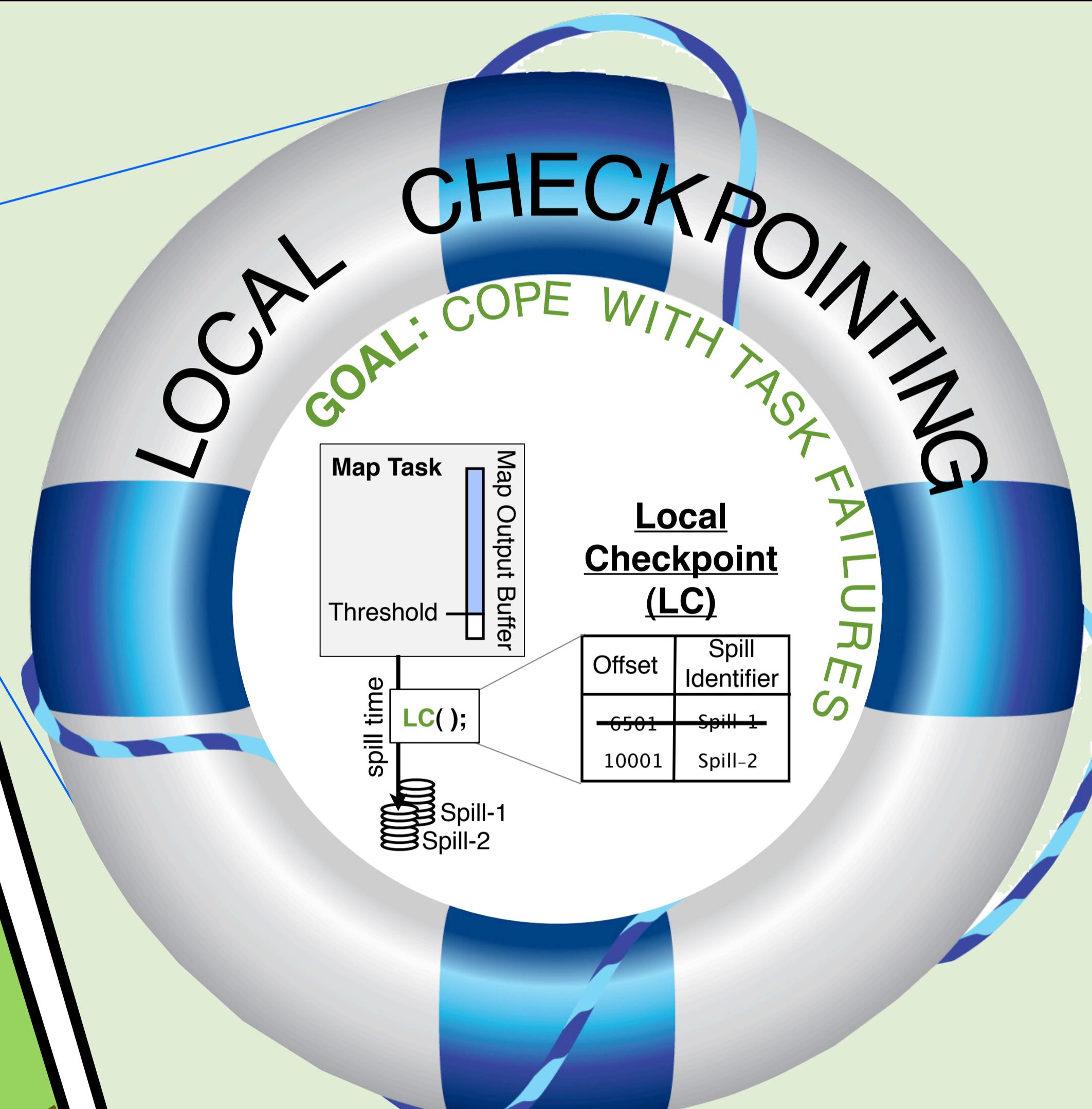
Protection for only 7% overhead under no failures!

Be careful



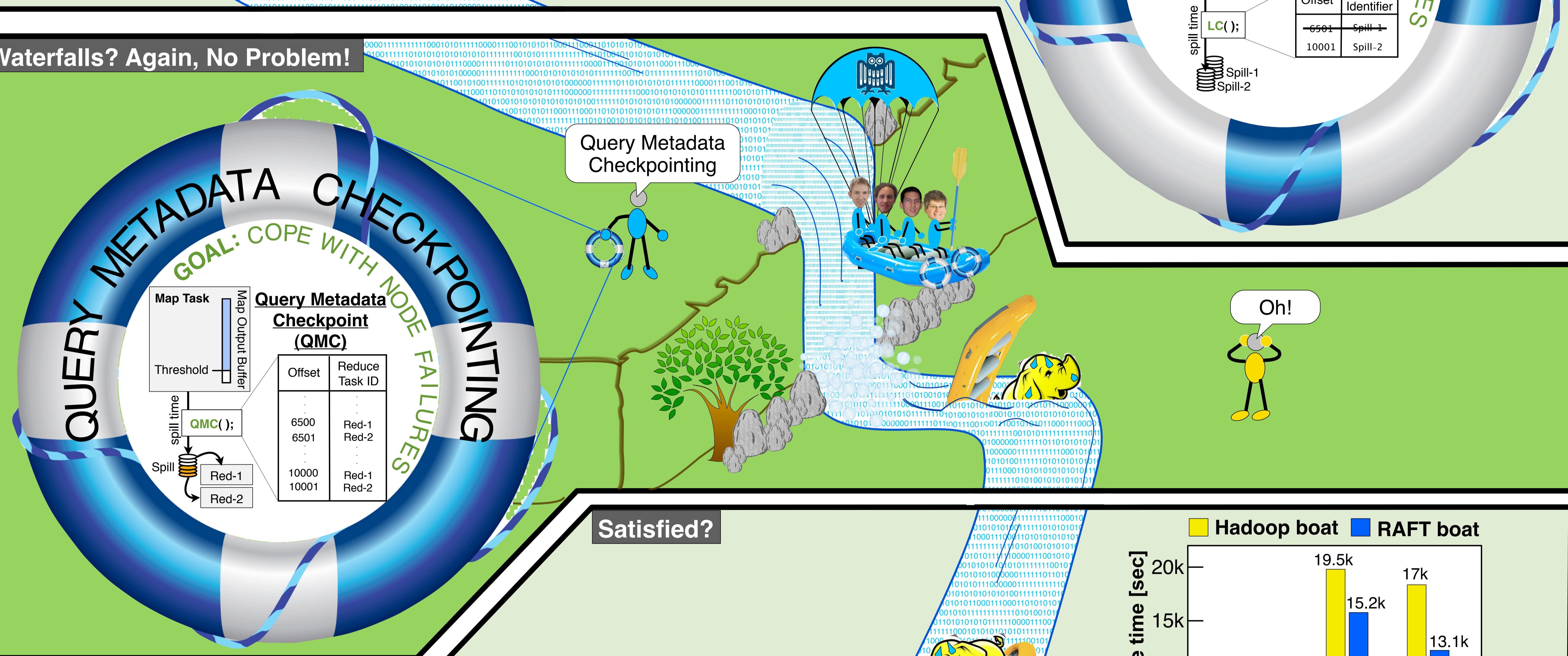
Rapids? No Problem!

Local Checkpointing



Waterfalls? Again, No Problem!

Query Metadata Checkpointing



Want more? Hadoop++ Project

Goal: match PDBMS performance

Issue: performance gap inherent to implementation

Idea: improve performance with minor changes to Hadoop

Visit our web site:

Hadoop++ Project: <http://infosys.cs.uni-saarland.de/hadoop++.php>

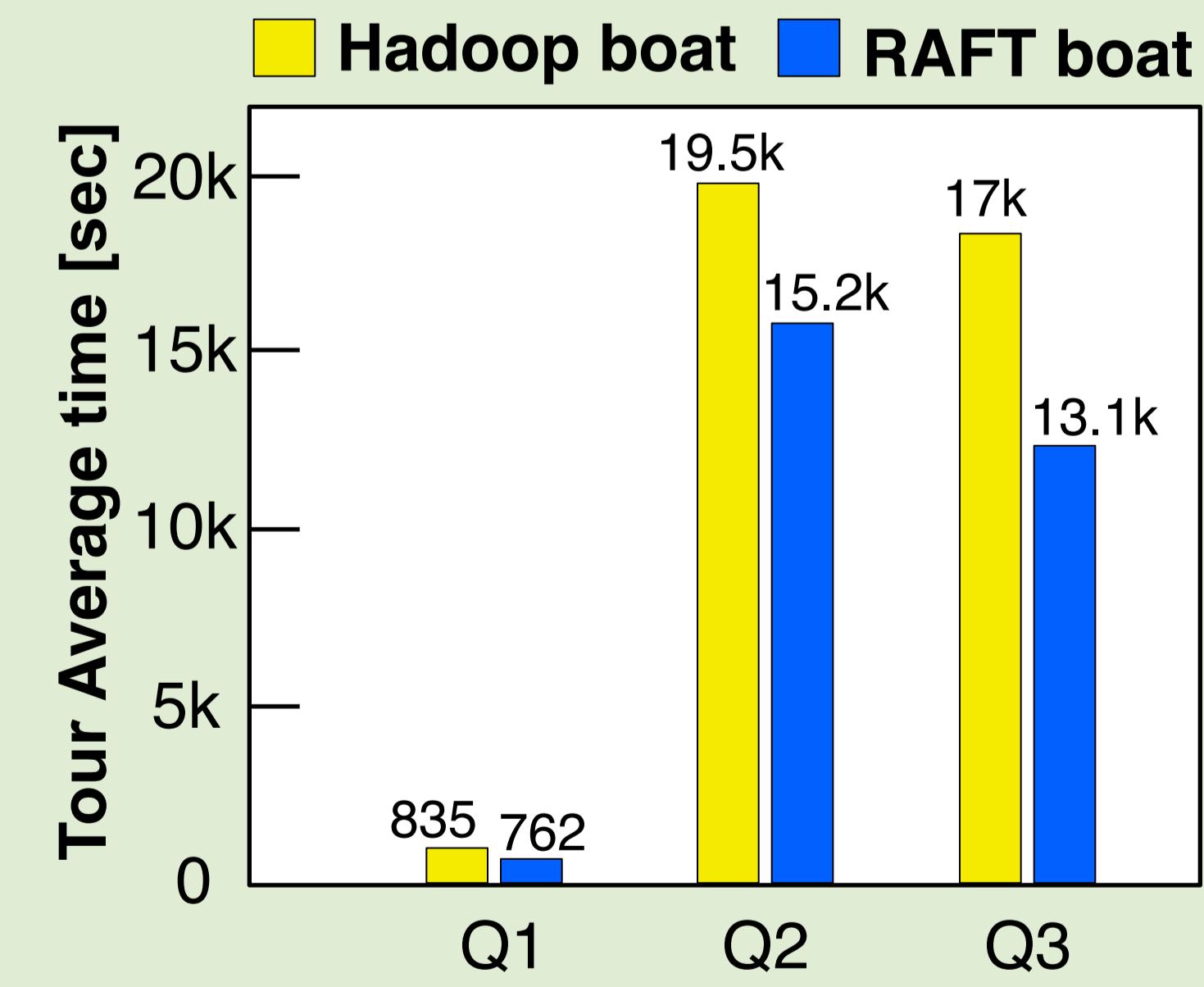
Hadoop Project Help??

- J. Dittrich, J. Quiané, A. Jindal, Y. Kargin, V. Setty, J. Schad. **Hadoop++: Making a Yellow Elephant Run Like a Cheetah (Without It Even Noticing).** VLDB/PVLDB 2010, Singapore.
 - J. Schad. **Flying Yellow Elephant: Predictable and Efficient MapReduce in the Cloud.** PhD Workshop VLDB 2010.
 - J. Quiané, C. Pinkel, J. Schad, J. Dittrich. **RAFTing MapReduce: Fast Recovery on the Raft.** ICDE 2011.

The RAFT boat was designed as part of the Hadoop++ Project



Other exciting tours



You see, RAFT boats are faster under failures, still negligible insurance cost!

