CARTILAGE: Flexible Hadoop Skeleton

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Time (sec)

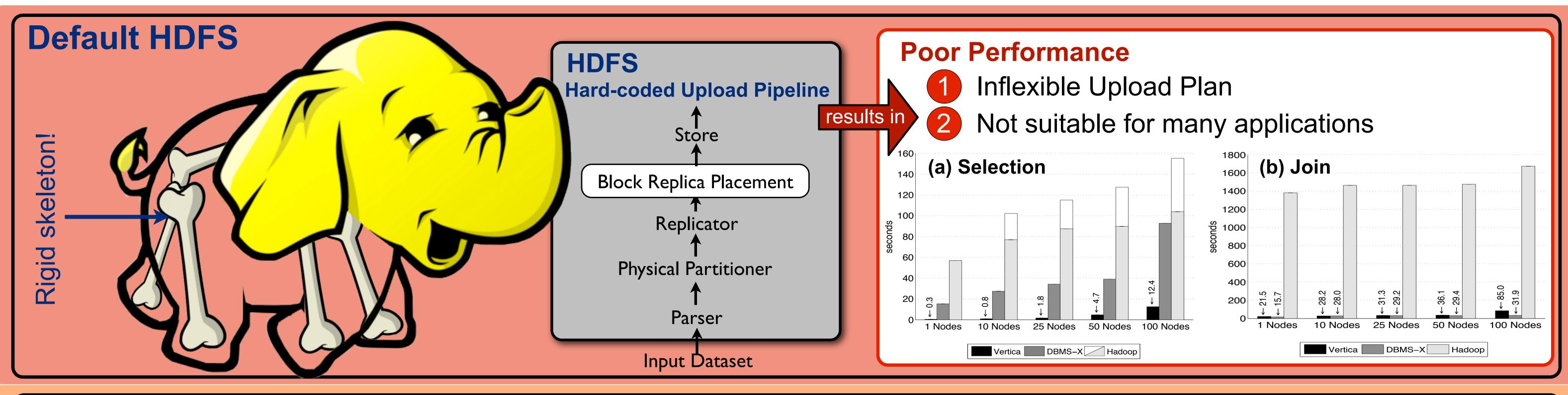
100

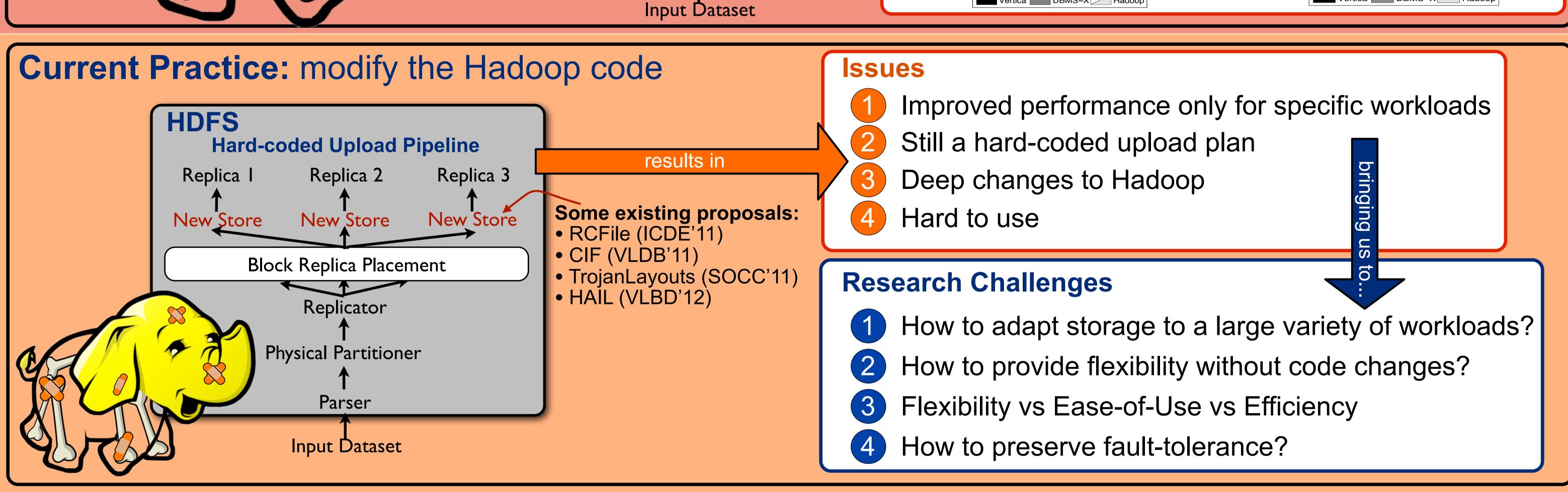
Number of Projected Attributes

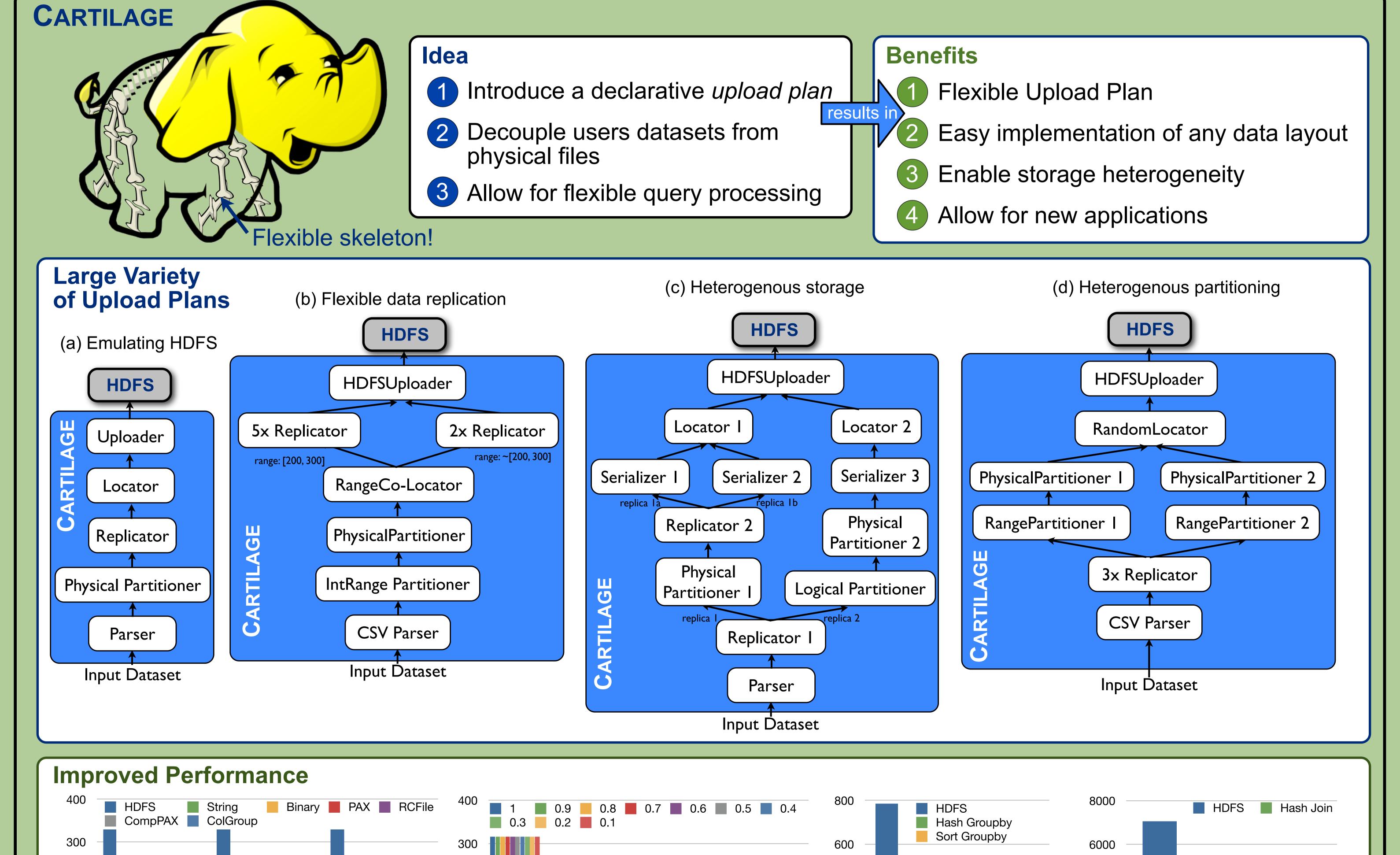
(a) Projection

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st Filter
Late Materialization Access
Late Materialization Access
Path Filter
Global Sort

(b) Selection

400

200

150M

Aggregation Key Cardinality

(c) Aggregation

4000

2000

Order_id

Customer_id

Join Key

(d) Join

1M

200

100