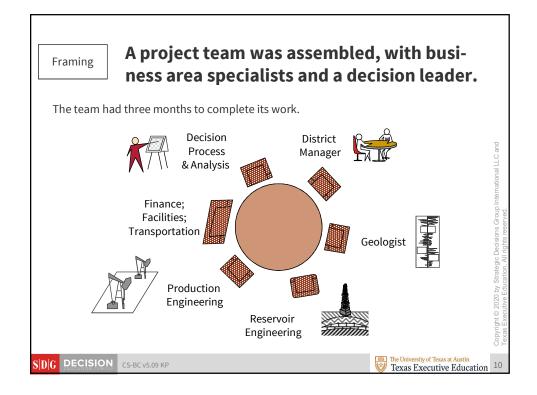


# **Agenda**

- Case Study Background
- Framing the Decision Situation
- **Generating Alternatives**
- **Preliminary Evaluation**
- Choosing the Best Strategy

SDG DECISION CS-BC v5.09 KP





Framing

## The project team gathered background information about the situation.

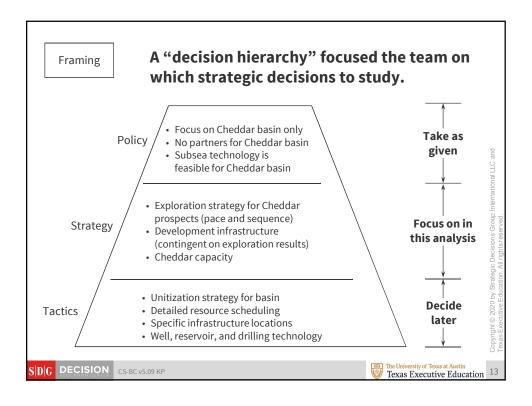
- Cheddar platform operates at 30 MBOE/day capacity and the field has reserves of 70 MMBOE.
- Other prospects (beyond those named earlier) are too distant from Cheddar to be relevant for the decision.
- To access the five prospects, we would need to:
  - Build new platforms
  - Construct a subsea tie to Cheddar
  - Do nothing
- BCO has options to upgrade the Cheddar platform

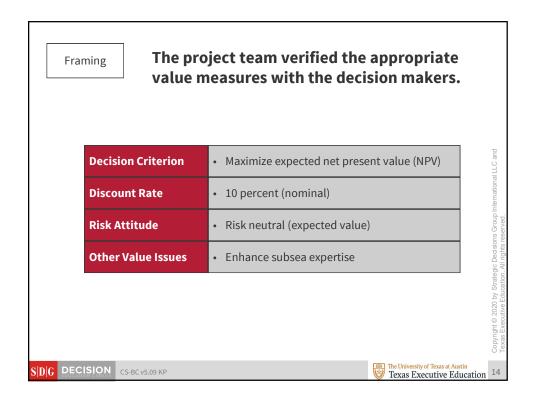
SDG DECISION CS-BC v5.09 KP

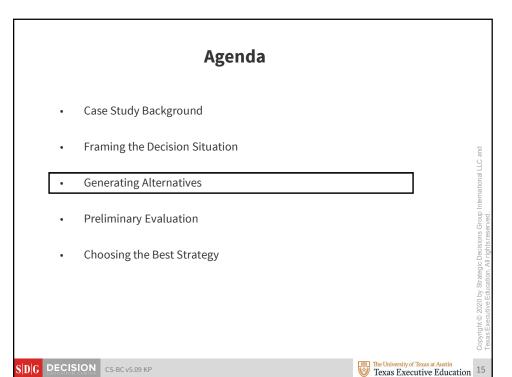


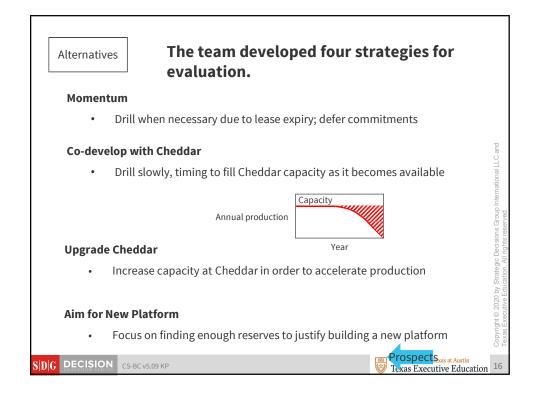
The team developed exploration and reserve Framing information for the prospects. Reserves (given presence of hydrocarbon) (MMBOE) Years to Prob. of Low **Base** High Prospect Lease Hydro-(1 in 10) (1 in 10) (median) Expiry carbons Swiss 0.60 40 70 110 Monterey 5 0.08 30 125 250 Jack Brie 2 0.50 15 25 45 Feta 0.40 10 Havarti 0.30 10 35 55 The University of Texas at Austin
Texas Executive Education

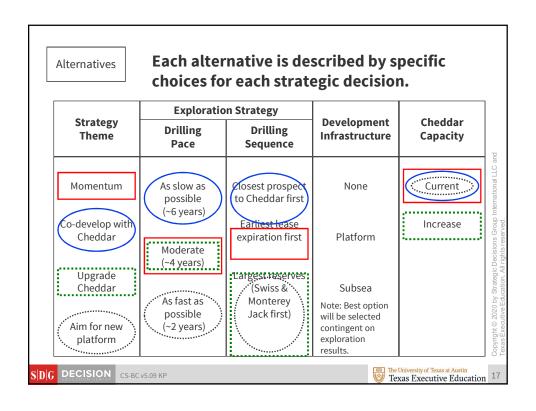
12 SDG DECISION CS-BC v5.09 KP

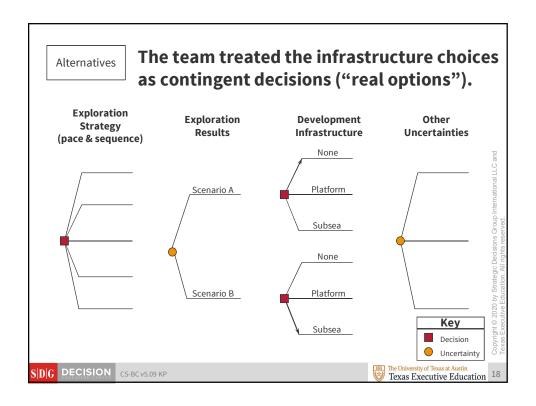




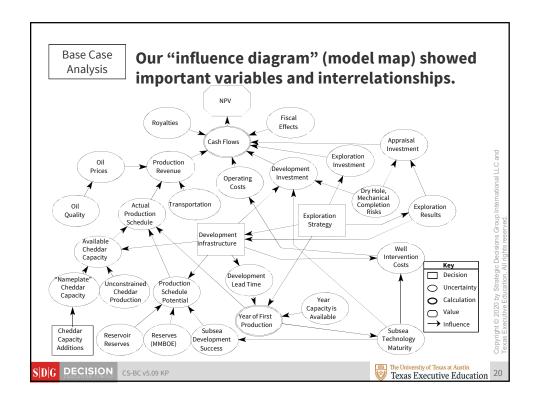


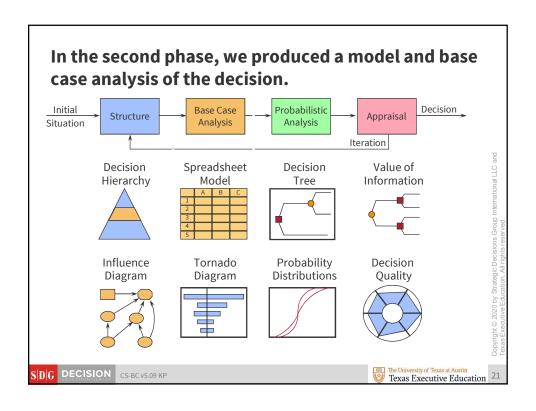


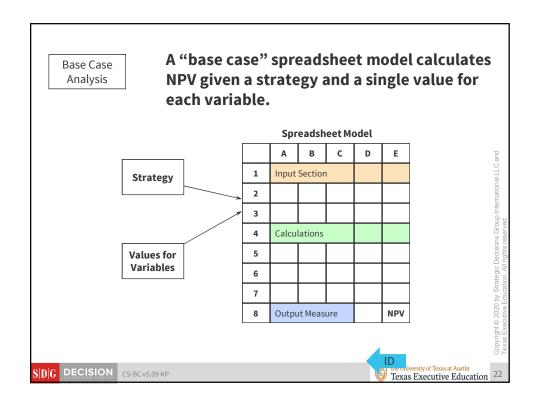


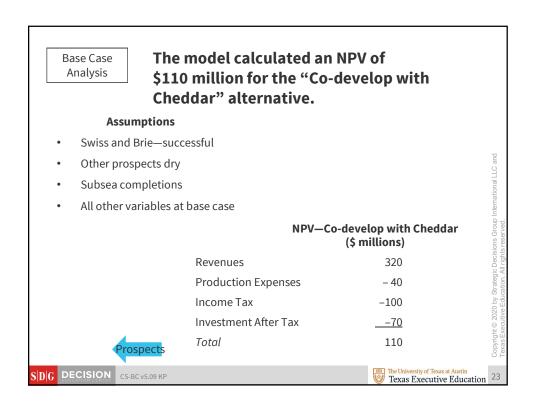


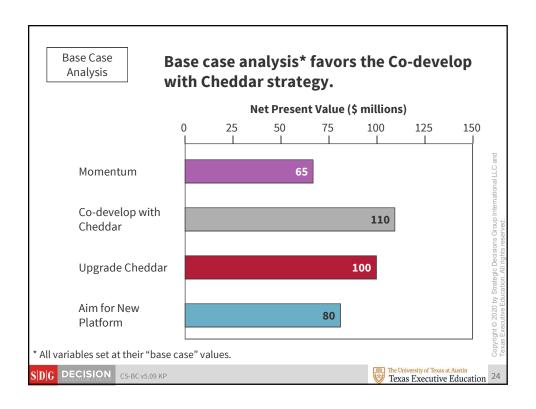
# Case Study Background Framing the Decision Situation Generating Alternatives Preliminary Evaluation Base Case Analysis Probabilistic Analysis Choosing the Best Strategy | Choosing the Best Strategy | The University of Texas at Austin Texas Executive Education | 19



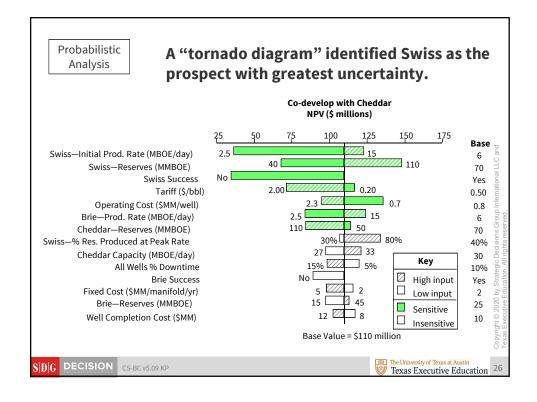








# Pagenda Case Study Background Framing the Decision Situation Generating Alternatives Preliminary Evaluation Base Case Analysis Probabilistic Analysis Choosing the Best Strategy SIDIC DECISION CS-BCV5.09 KP



### Probabilistic **Analysis**

## The tornado analysis led to some important insights:

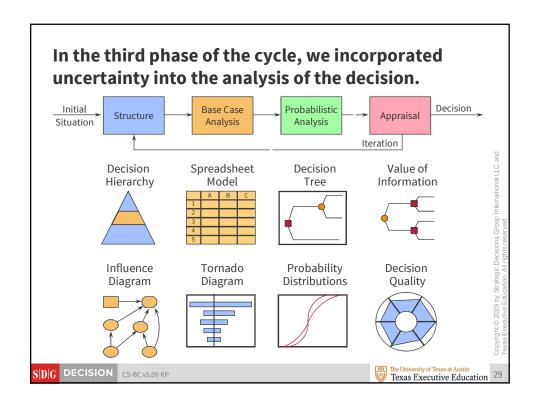
- Further analysis indicated the best exploration strategy is to drill in order of decreasing risked\* reserves as Cheddar capacity becomes available.
- The upside potential of the Co-develop with Cheddar strategy is moderate because of limited Cheddar capacity.
- Major drivers of the value and risk of a Co-develop strategy include:
  - Swiss production rates, reserves and success
    - Tariff levels
  - Operating costs
  - Brie-production rate
  - Cheddar reserves (i.e., it produces for longer than expected)
- Tens of millions of NPV can be influenced by factors that are at least partially under our control.
  - Cheddar capacity
  - Operating cost

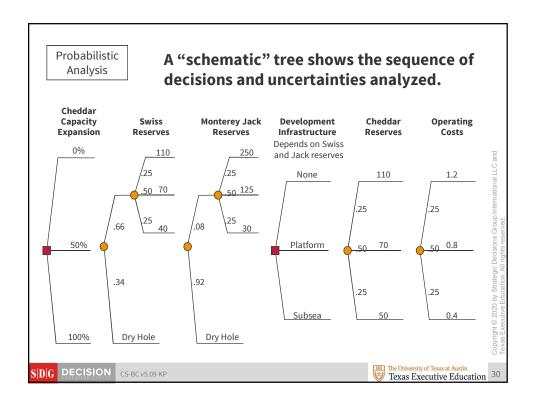
\*Risked reserves: Expected value of reserves, taking into account drilling success and uncertainty in reserves.

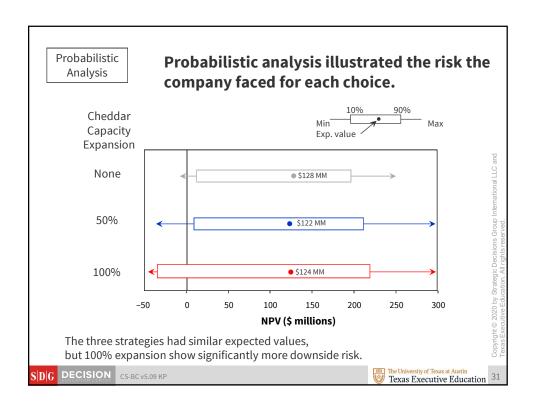
DG DECISION CS-BC v5.09 KP



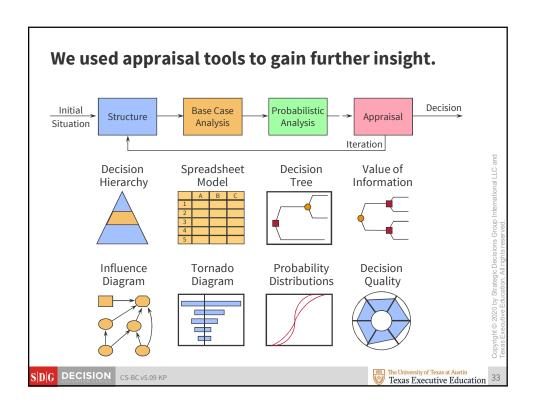
### Probabilistic With these insights plus decision board **Analysis** input, we refocused our alternatives on the Cheddar capacity decision. **Lead Time Cheddar Capacity** Cost (first production) Scope No expansion \$0 50% expansion Expand existing processing \$70 3 years facilities 100% expansion Add a second processing facility \$110 4 years and add second pipeline The University of Texas at Austin Texas Executive Education CS-BC v5.09 KP

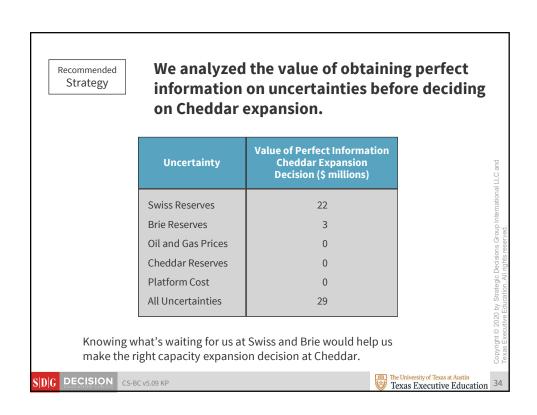


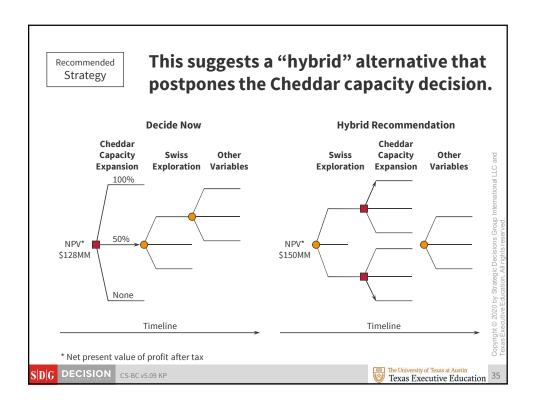


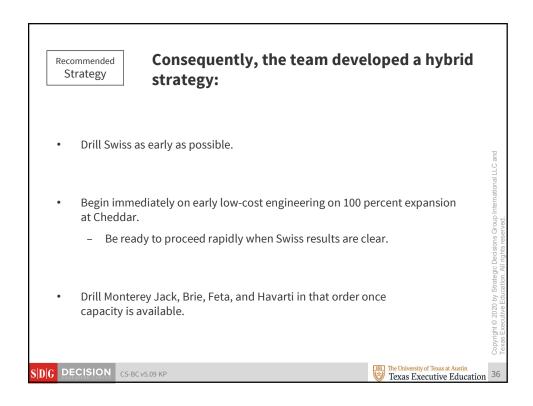


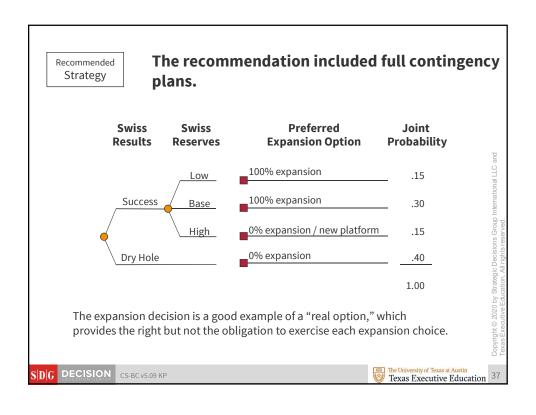


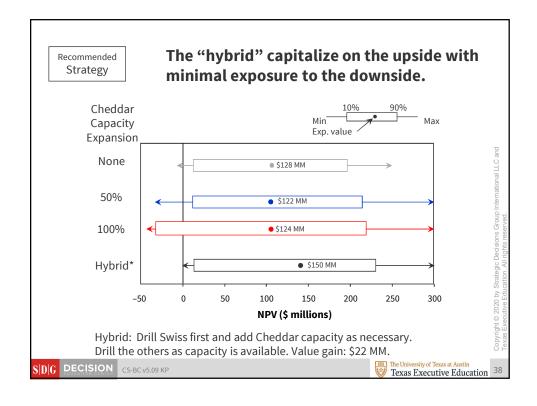


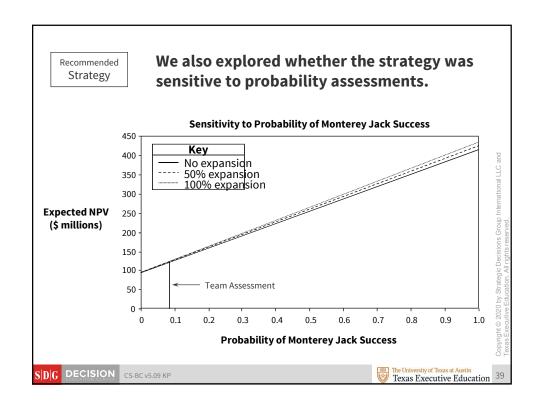


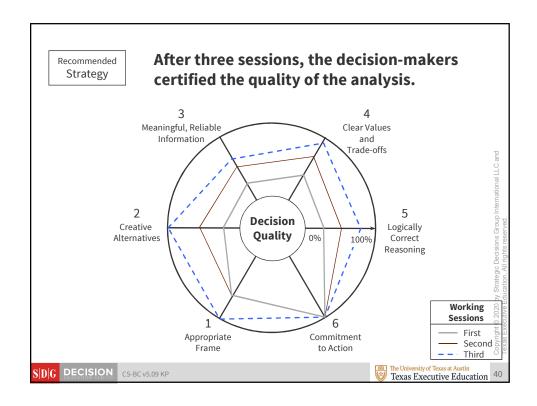












# In summary, the analysis had numerous benefits for the project team and decision-makers.

- The complete probabilistic analysis indicated the risk and return of each strategy.
- Analysis of divergent opinions ended many debates.
- The process identified new creative options to reduce risk. This created \$22 Million added value potential.
- Buy-in and commitment to action were obtained in working sessions with the decision-makers.

The University of Texas at Austin
Texas Executive Education
41

SDG DECISION CS-BC v5.09 KP