



Danske OBN Seminar

What Impacts the economics of OBN ?

Axxis Geo Solutions

Lee Parker, CEO

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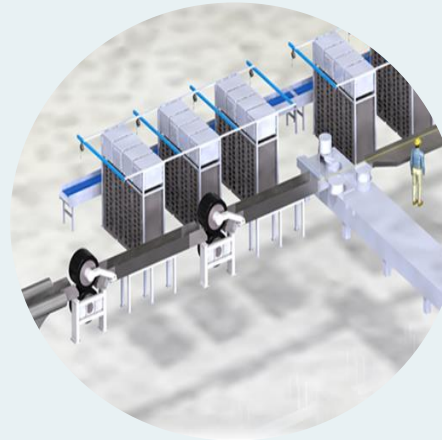
Axxis Geo Solutions in brief

- An ocean bottom node (OBN) seismic service company
- Multi-client and contract seismic
- Experienced management and organisational core
- Headquarter at Lysaker, Norway
- Listed on Oslo Axess (ticker AGS)

Axxis Geo Solutions' competitive edge in the OBS market



Asset light model



Core competence & proprietary technology



Operational excellence

Agenda

1. Value

2. Data

3. Time and cost drivers

4. Q&A



Value Defined

- Simplistic View
- Doesn't work for Seismic Data



Value Defined



\$500



\$500,000

Fold Defined

- High is better than low
- Improves
 - Signal fidelity
 - Better noise removal
 - Better Multiple Suppression



Density (Bin Size) Defined

- High is better than low
- Improves
 - Subsurface migration & imaging
 - Better noise removal
 - Resolution



Agenda

1. Value

2. Data

3. Time and cost drivers

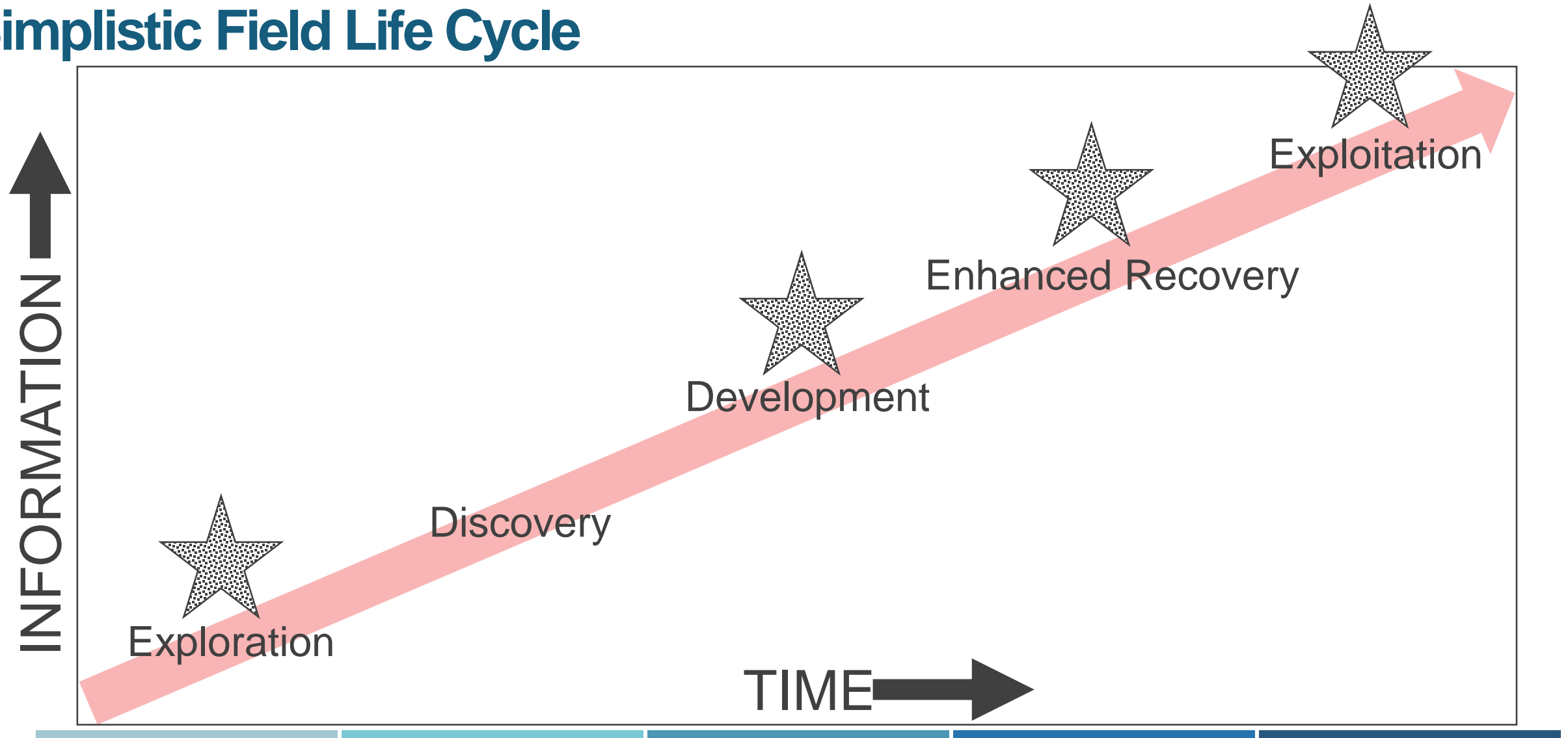
4. Q&A



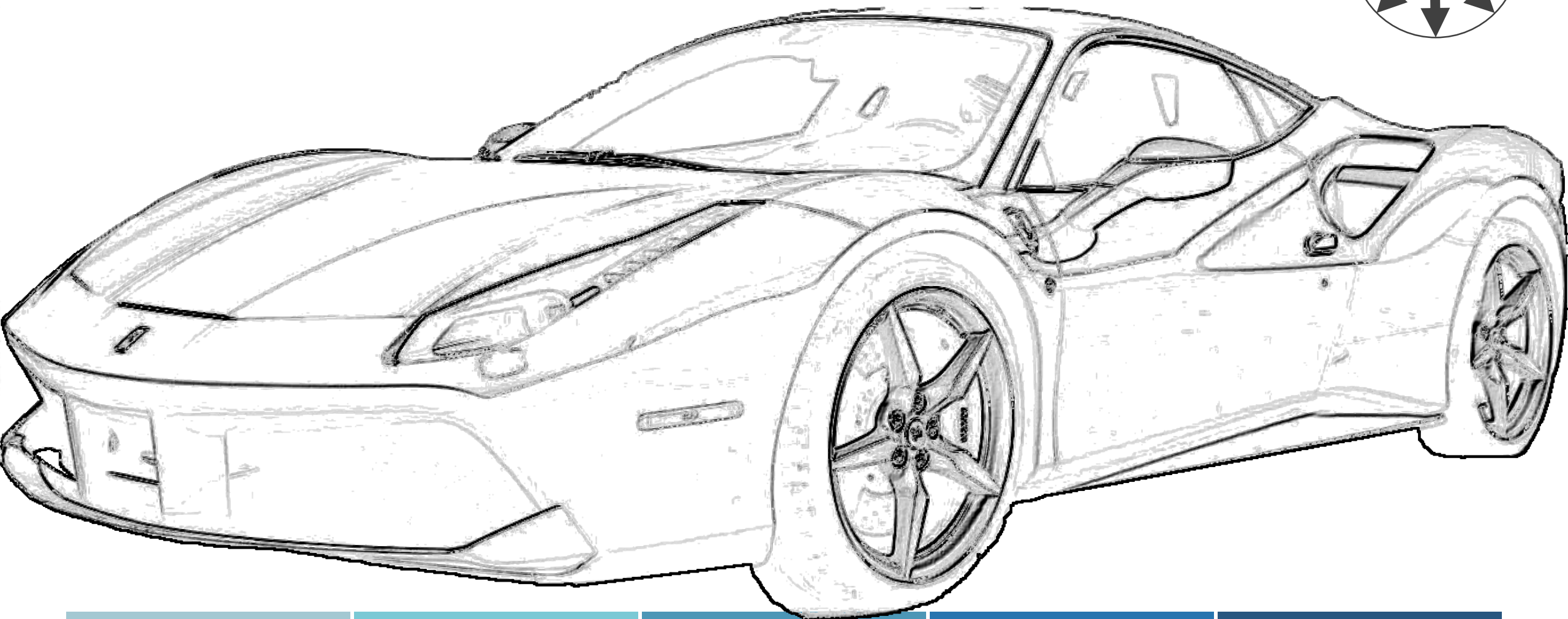
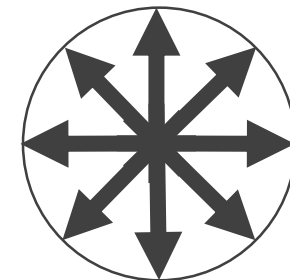
Better Measure = Fold x (Trace Density per sqkm)

- Utsira
 - $\text{Tr} / \text{Sqkm} = 1200 \times 80 \times 40 \times 4\text{C}$
 - > 3 Million however 4C
 - > 12 Million
- 8 Streamer Marine 8 x 6km dual
 - $\text{Tr} / \text{Sqkm} = 240 \times 80 \times 40 = > 700 \text{ K}$

Simplistic Field Life Cycle



The Benefit of Full Azimuth



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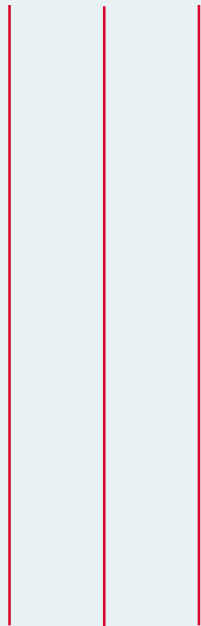


OBN time and cost drivers

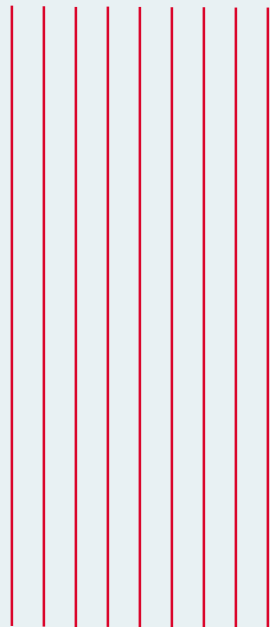
- Time set by Source Grid
 - Major cost driver (number vessels, processing techniques)
 - Sail line interval (Major difference over conventional streamer)
 - Number of turns
- Node grid sets offsets & Fold
 - Determines if requires to repeat sources or use more nodes

OBN time and cost drivers

Streamer Sail Line

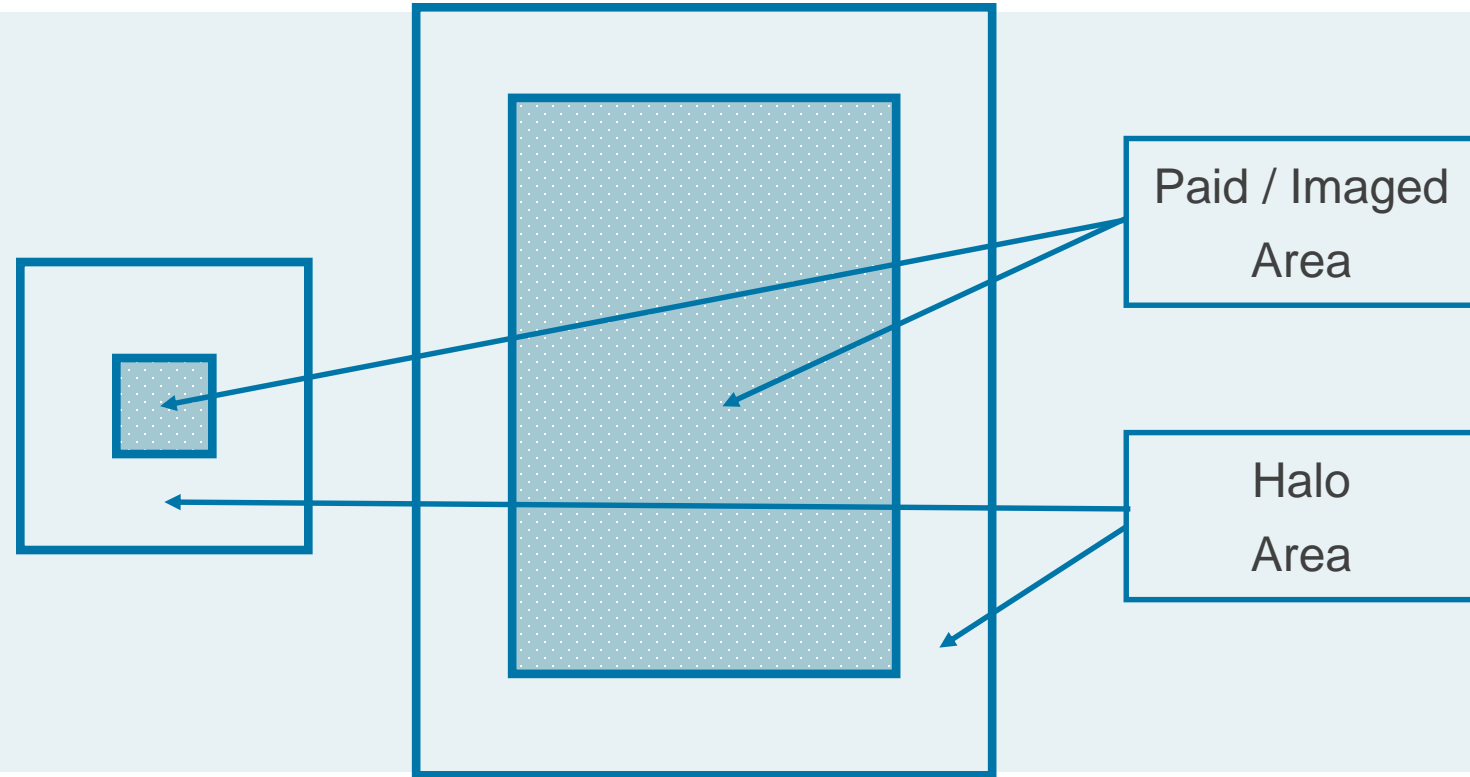


OBN Sail Line 3x



Why Multi-Client ?

- Acquire larger areas
- License to multiple parties
- Small program
 - 800 % area is non productive
- MC Program
 - 100 % area is non productive
- Time is driven by outer area



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Q&A

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