



Industry Structure – Before & After



History

- Victoria, Australia - the recognition by Government that the Government owned electrical industries were poor performers.
 - Over supply of generation due to conservative planning
 - Low generator availability due to poor processes and systems
 - Gold-plating of transmission and distribution systems
 - High level of industrial disputes and low productivity
 - Significant cross-subsidies and high costs in some areas.



History

- It was also recognised that Government mechanisms would not be able to inject significant change in the short term...
 - Significant risk of industrial disputes
 - Formidable Labour Union strength
 - Entrenched processes and practices
- The decision to privatise was as much based on the cash injection as placing the burden of improvement outside of the government sphere.



History

- Union entrenchment and public perceptions were also key factors in the govt decisions
 - SECV Management reports 1991/92-
 - % employees above estimated requirements – 101%
 - Wage increases above national average – 13%
 - Overtime as a % of ordinary hours – 8.3%
 - Production lost due to disputes - \$11,230,000

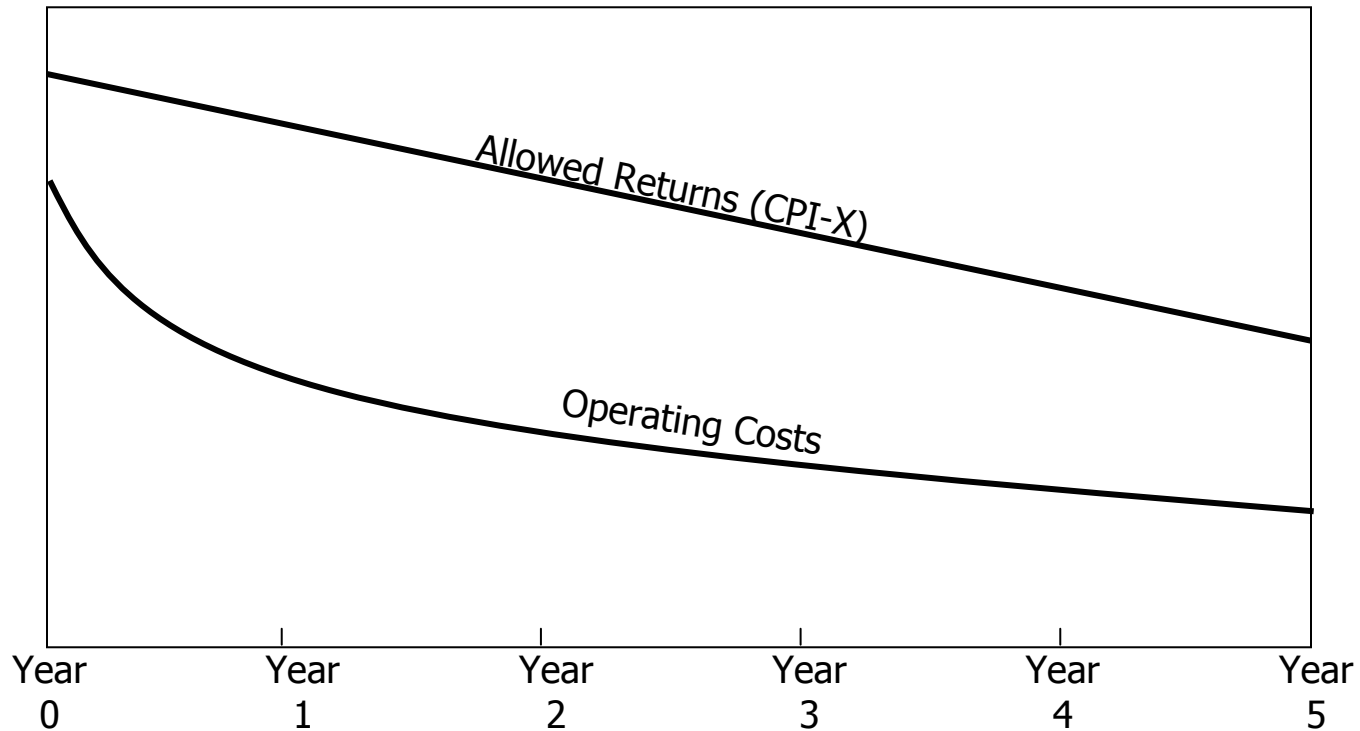


History

- Prospective purchasers saw high returns and paid top dollar for many of the assets
 - Aggressive “selling” of utilities by governments
 - Rates of return set above 10% (for first 5 years)
 - A bidding war developed in Victoria Australia
 - Foreign bidding teams under significant pressure to return with a “trophy”

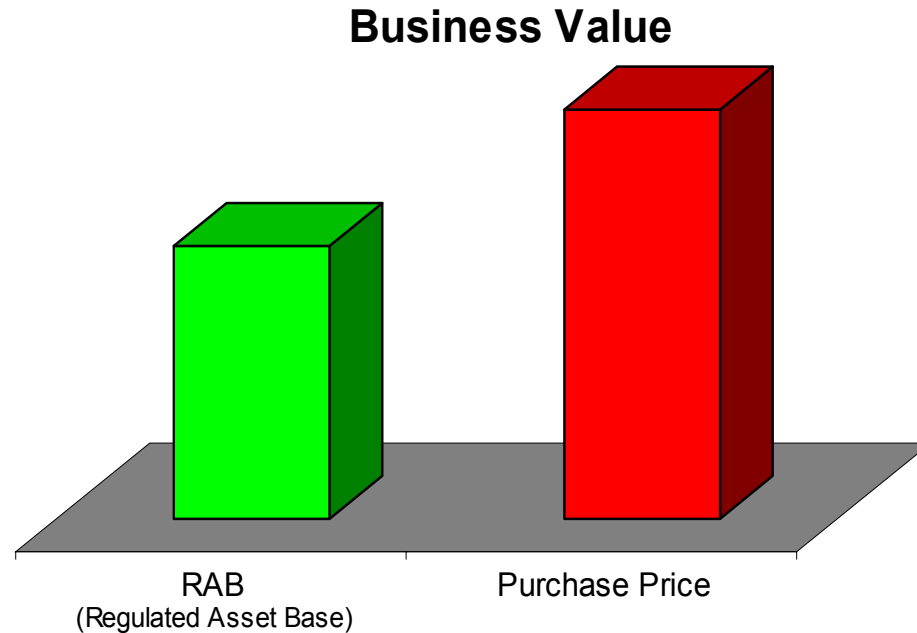
History

- Significant opportunities to push returns up to around 20% through hard-line process improvement and rationalisation.



History

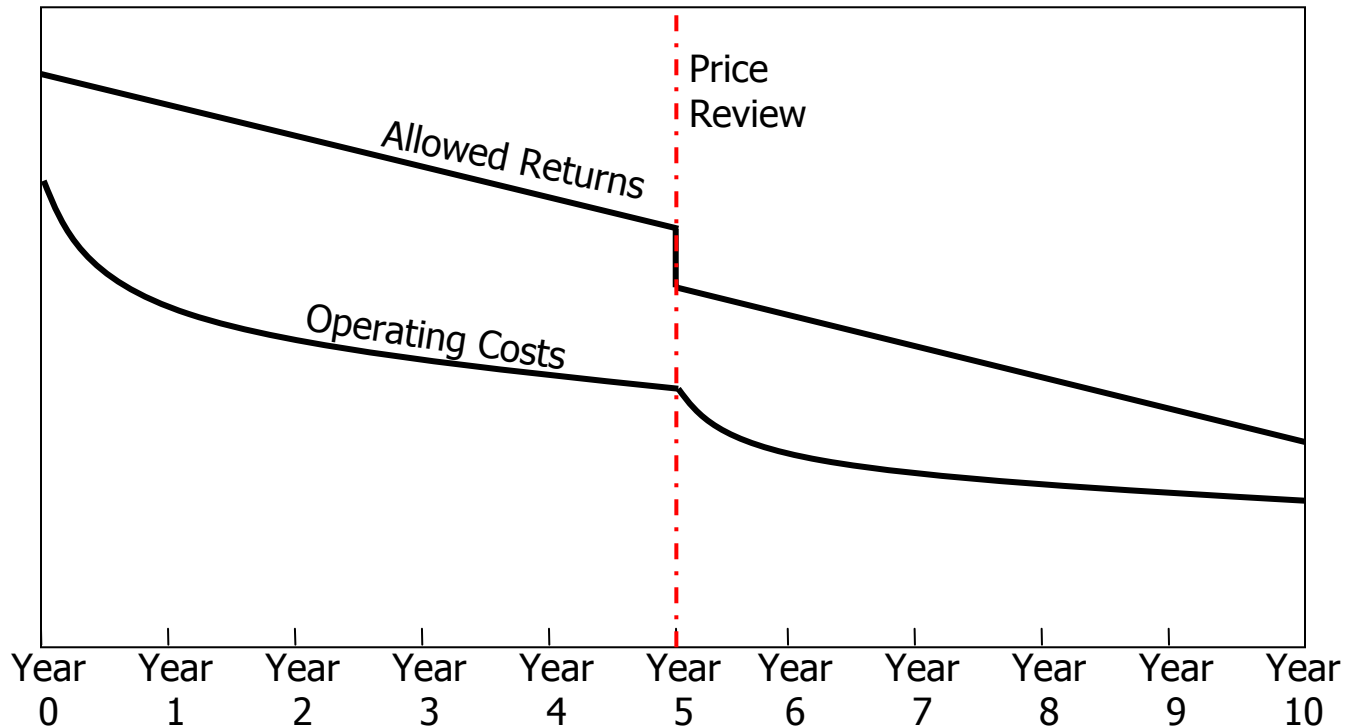
- High returns meant that the business value was greater than simply the sum of the asset values...



- What happens to the Business Value when returns are brought back to WACC?

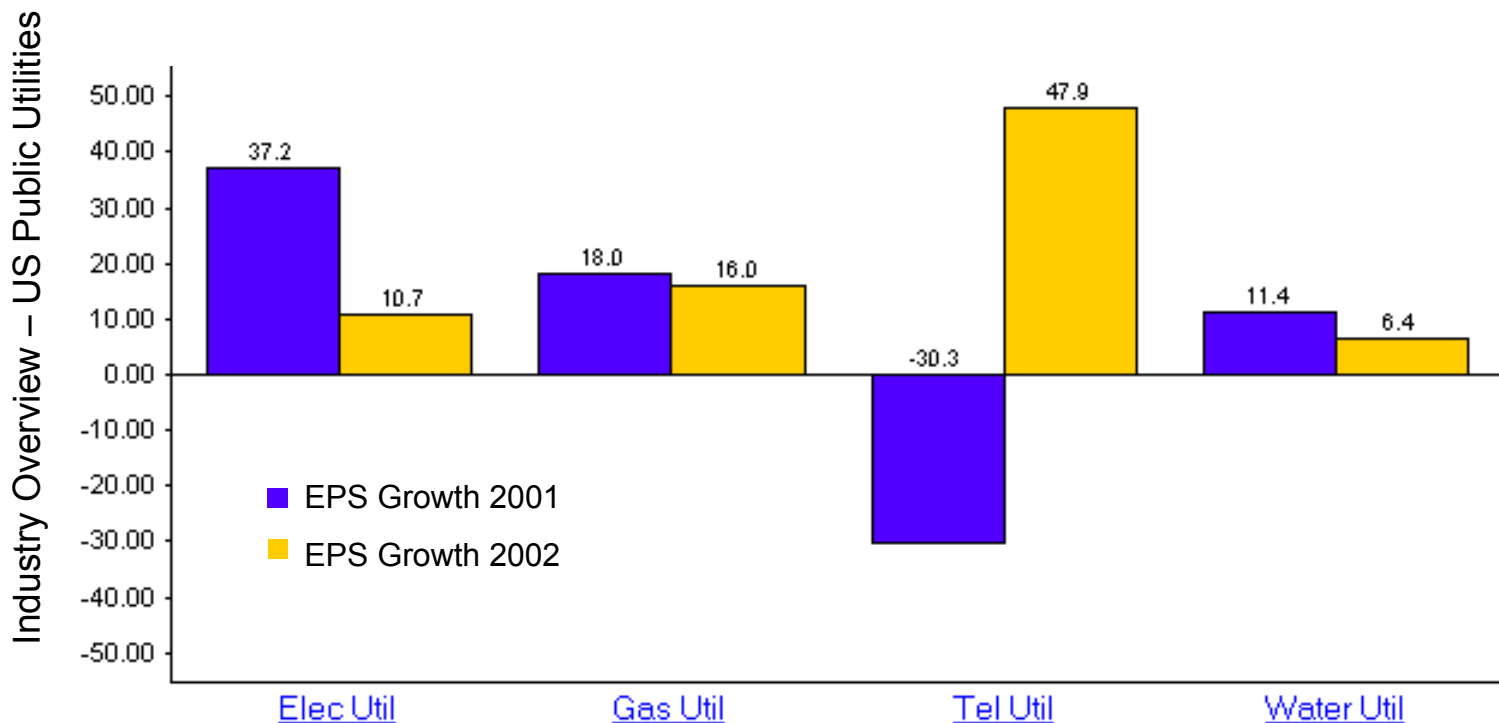
History

- Short-term high-returns were realised in both the UK and Australia, although the regulators are quickly clawing these back.



History

- The US companies have been through a similar cycle.
- Utility stocks have gone from being bond stocks (pension funds) to equity stocks (growth) during the deregulation process.
- Projections signal a return to bond stocks.



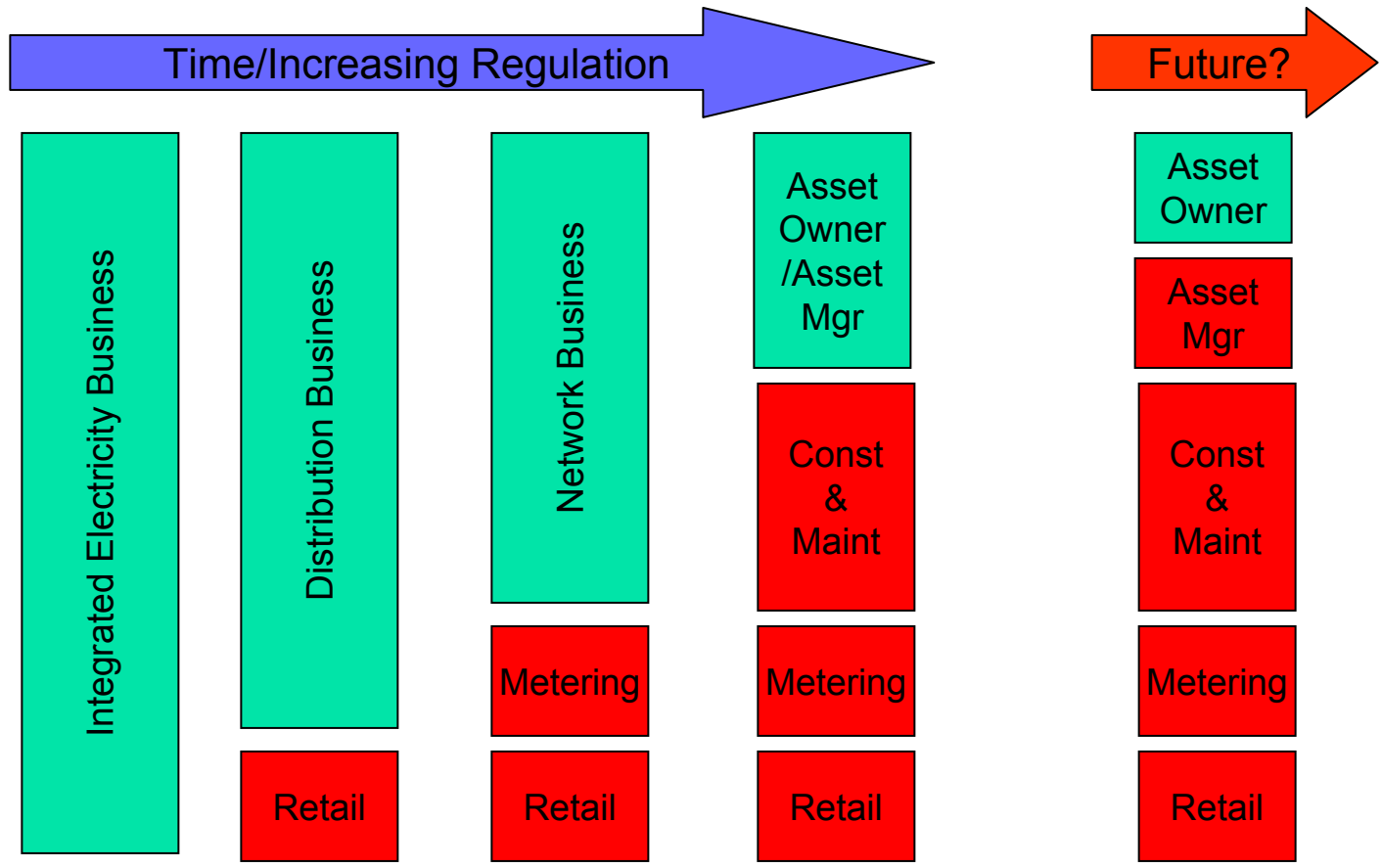
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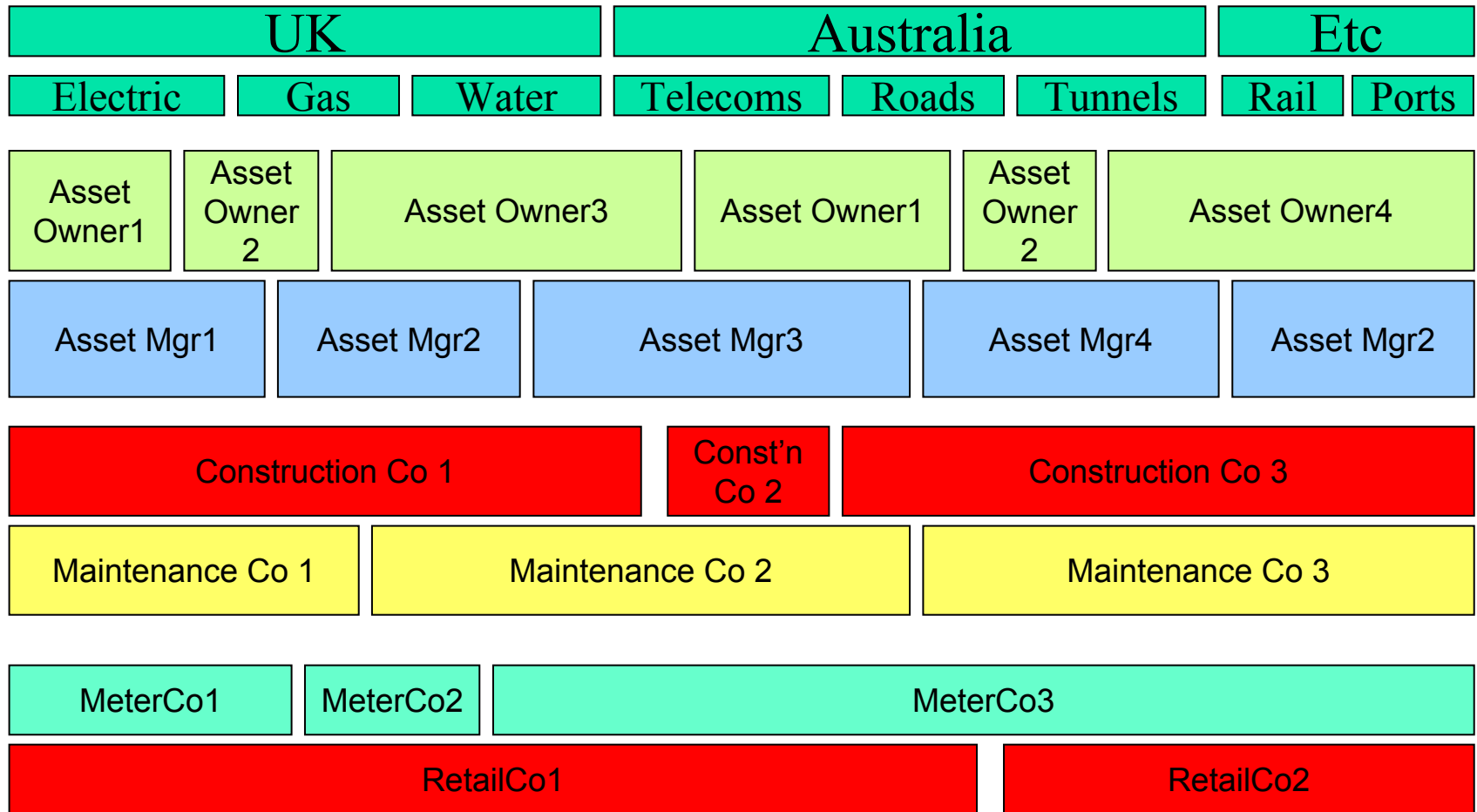
Structure

- Vertical separation of businesses into Asset Owners, Asset Managers, Service Providers and retailers



Structure

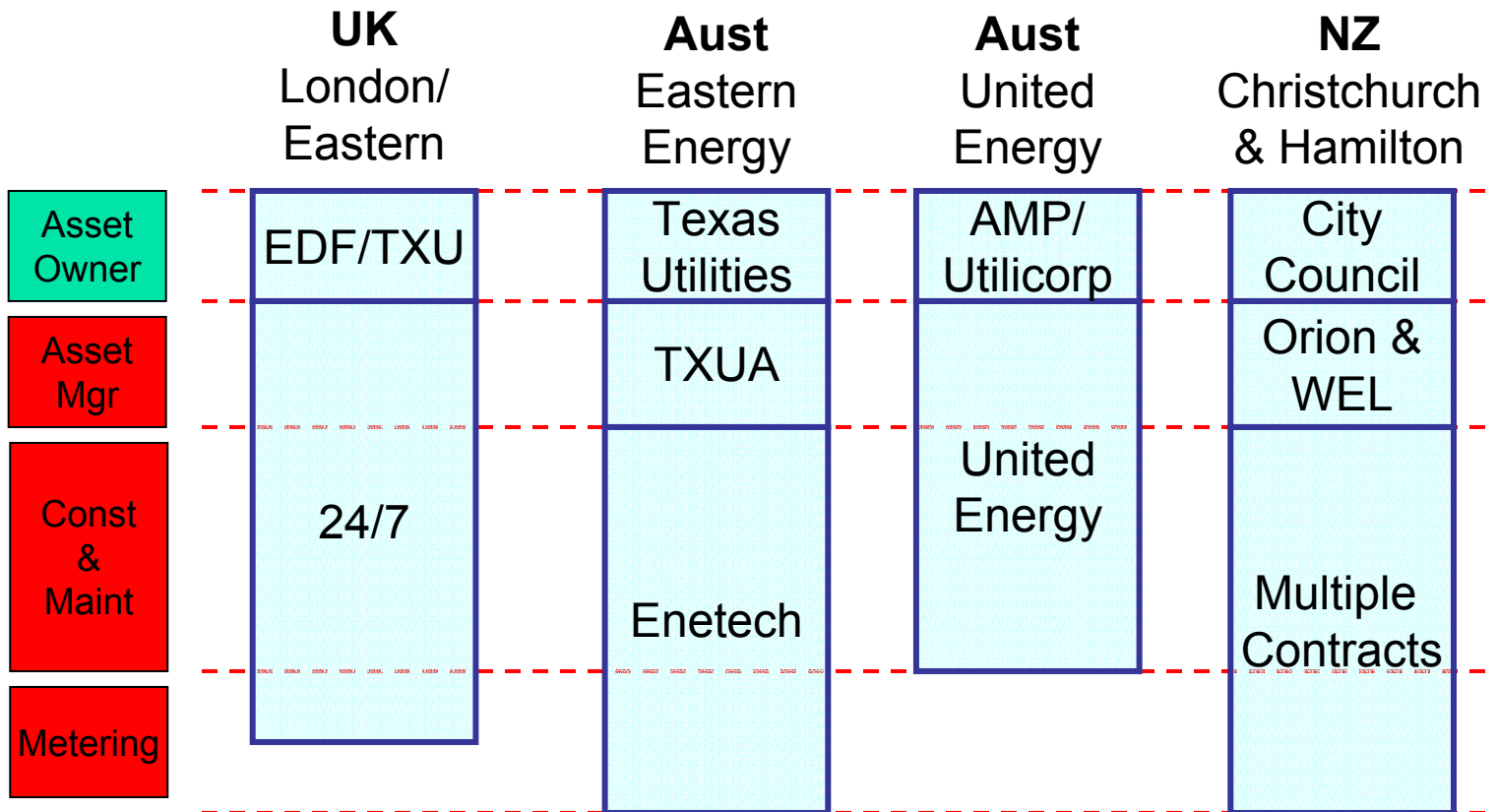
- Horizontal integration of businesses (example)





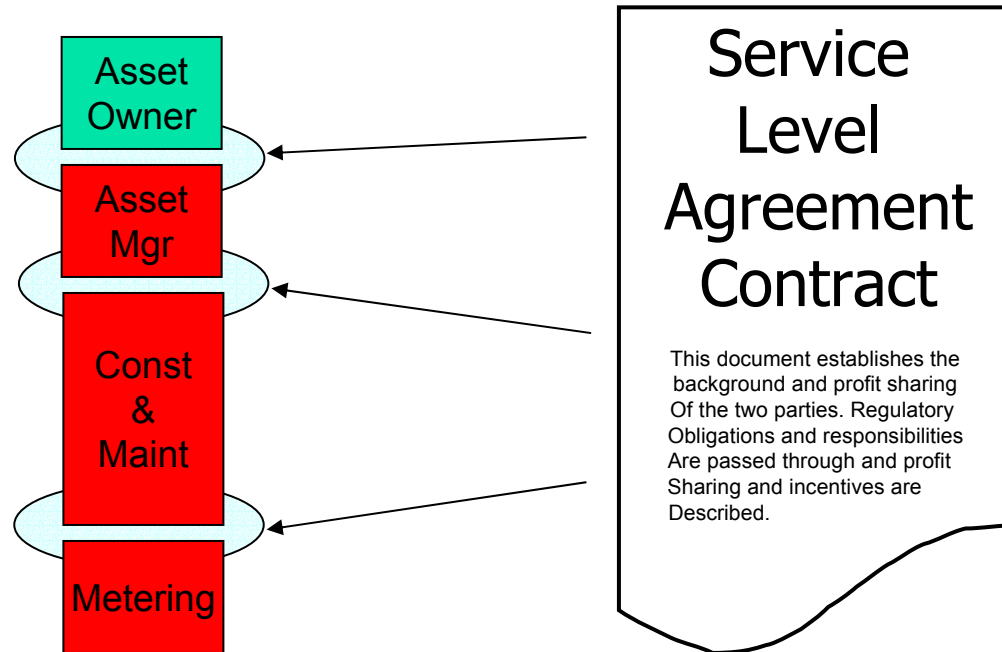
Structure

- Examples:



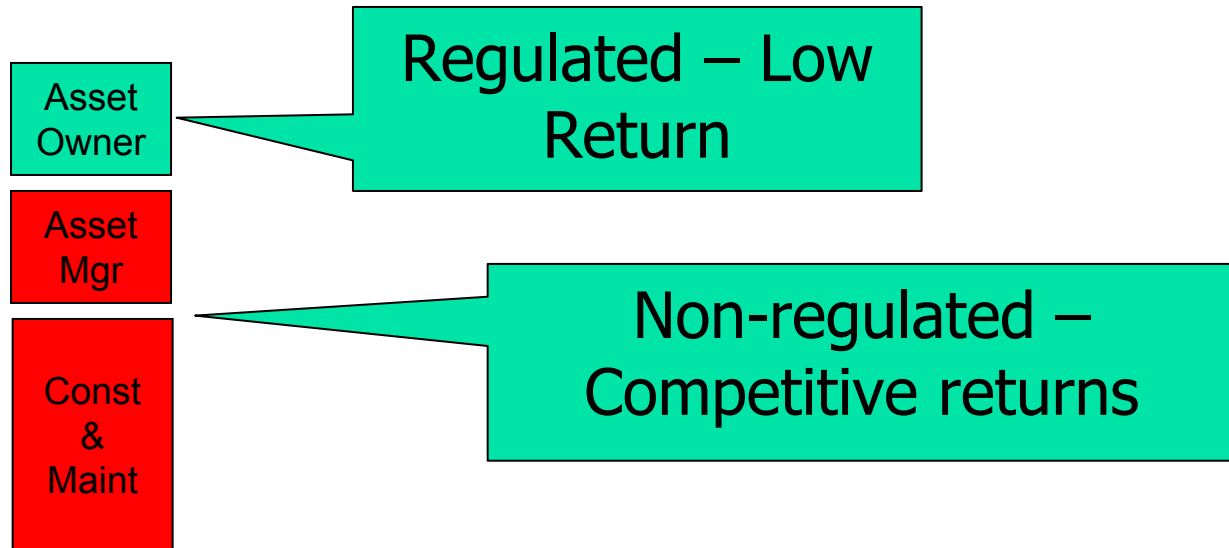
Structure

- Growth of service level agreements to flow obligations downwards and share returns.



What next?

- Question: What to do with a company where shareholders expect growth and regulators only allow bond-style Rates of Return?
- Answer: Split the business in line with risk/return ratios.





What next?

- Asset Owners...
 - Regulators WILL drive asset returns down to bond-stock levels (WACC)
 - Equity investors WILL NOT be interested in these levels of return
 - Fund investors (e.g. superannuation, mutual funds and investments houses) WILL find low risk/low return electrical assets a natural fit with their portfolios.
 - Fund investors WILL NOT want to manage these assets. (E.g. Building and hotel industry)



What next?

Asset Managers...

- Asset managers would operate in a regulated environment but not be regulated on their returns.
- Higher returns could be achieved through...
 - Building Scale:
 - Managing assets for multiple electric utilities
 - Building Scope:
 - Managing assets across industries (e.g. gas, water, telecom, roads)



What next?

- Service Provider returns to remain tight.
- Strategies for improving returns include;
 - Joint ventures and alliances with Asset Managers
 - Building scale across multiple electrical authorities
 - Building scope across multiple industries
 - Niche providers



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- Founded in New York 1885
- Now with 9000 staff
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- One of the world's biggest engineering consultants
- Core businesses - transportation, buildings, power
- Contract revenues over US\$1,600 million
- Employee owned

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