

Locational Signals Preferred Options
Consultation

RECOMMENDED LOSSES STRATEGY

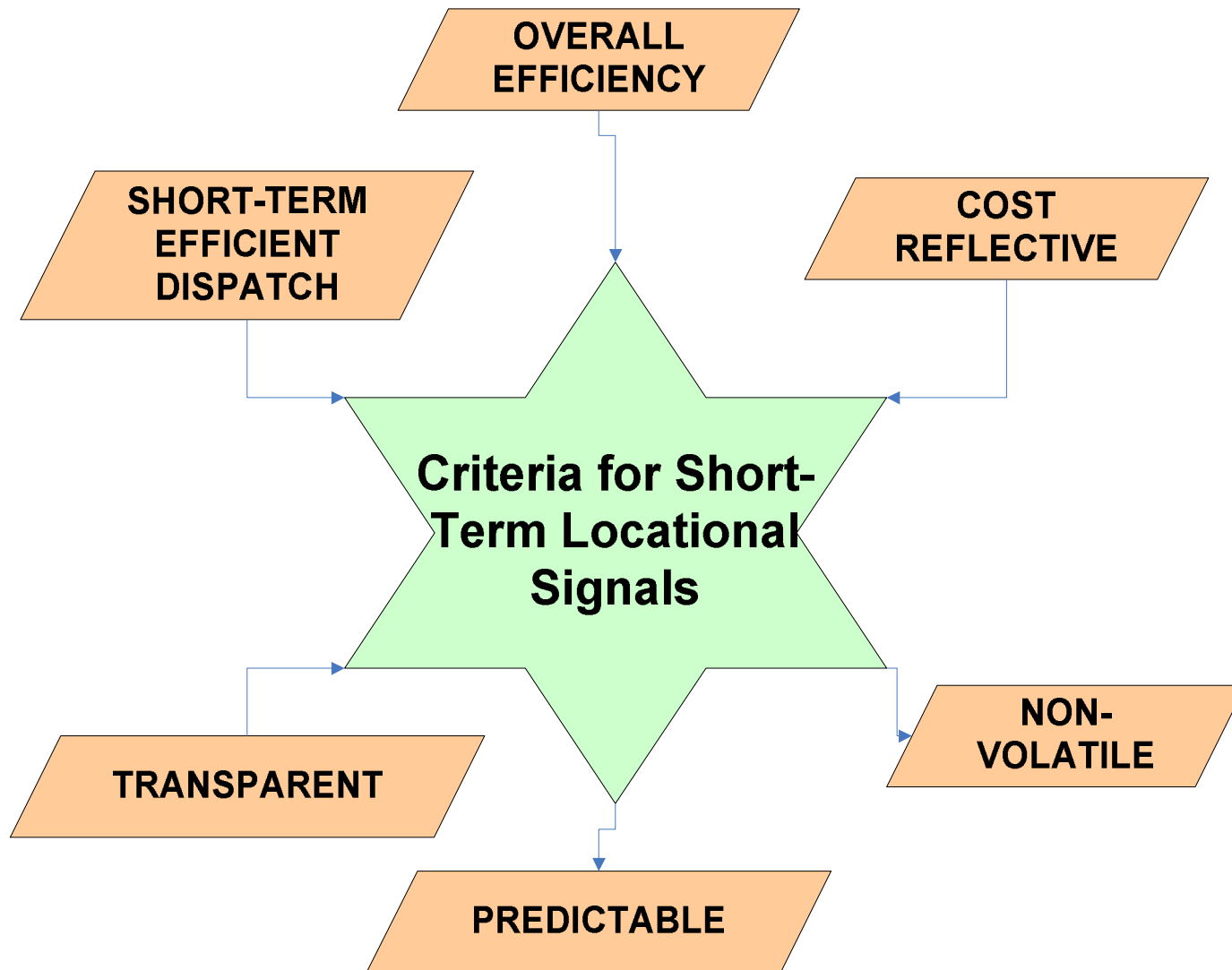
Louise Carolan
Tim Hurley

LOCATIONAL SIGNALS

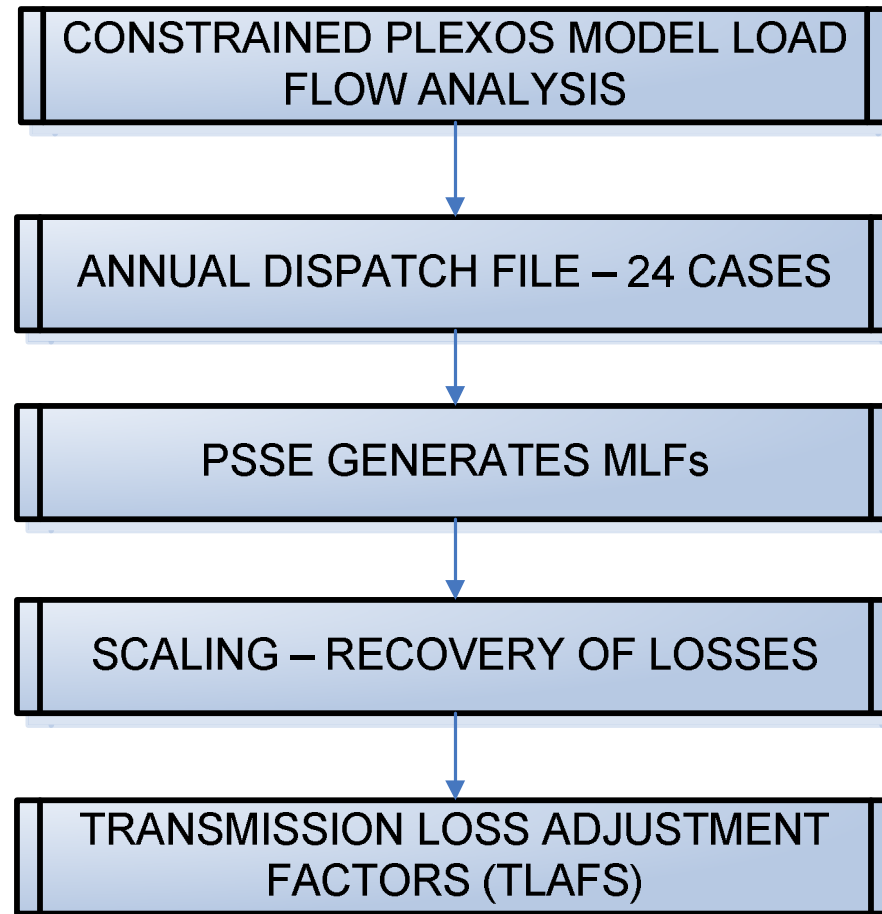
Long-Term



Short-Term



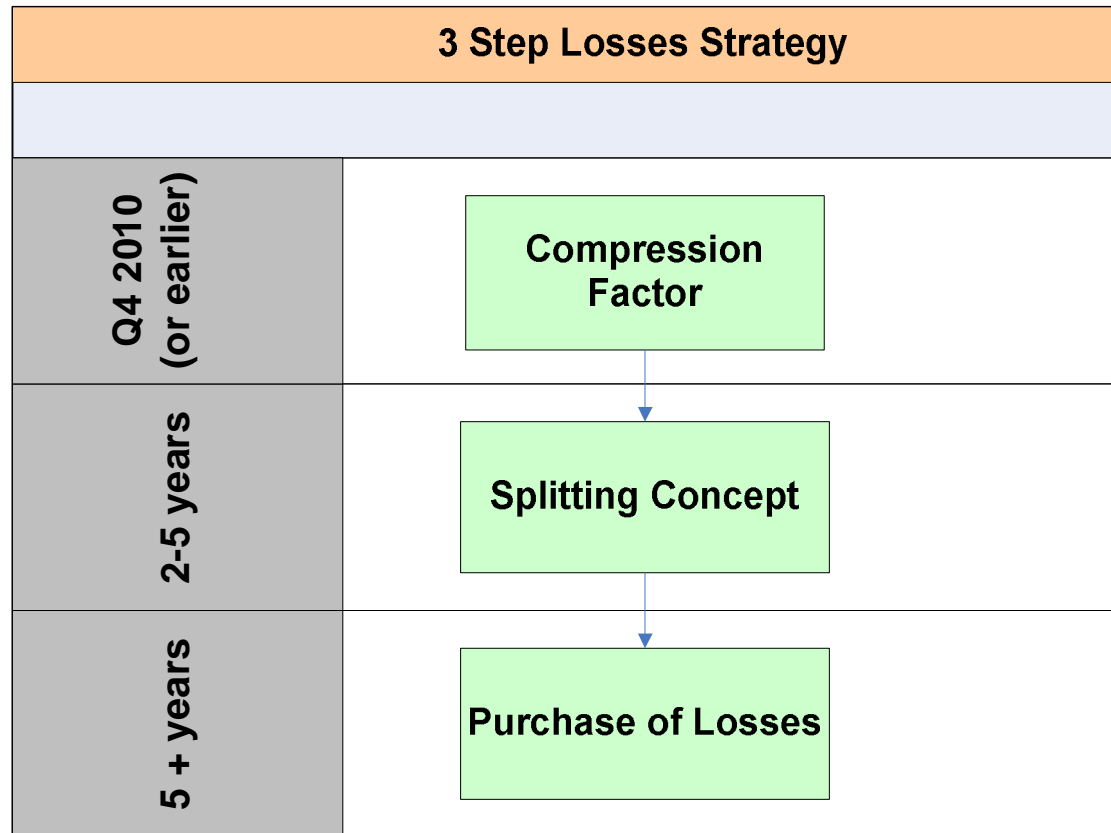
Current TLAf Methodology



Benefits & Limitations of Current Methodology

Positives	Negatives
<ul style="list-style-type: none"><li data-bbox="293 603 1084 715">• Aids Short-term Efficient Dispatch<li data-bbox="293 740 763 786">• Cost Reflective<li data-bbox="293 818 1084 930">• Provides a strong short-term locational signal	<ul style="list-style-type: none"><li data-bbox="1146 603 1659 715">• Overly Volatile & Unpredictable<li data-bbox="1146 740 1917 786">• Ex-Ante Loss Factors - Wind<li data-bbox="1146 818 1753 865">• Not Iterative Process<li data-bbox="1146 896 1462 943">• Complex

Preferred Losses Strategy



Short term Compression Factor Method

X=TLAF

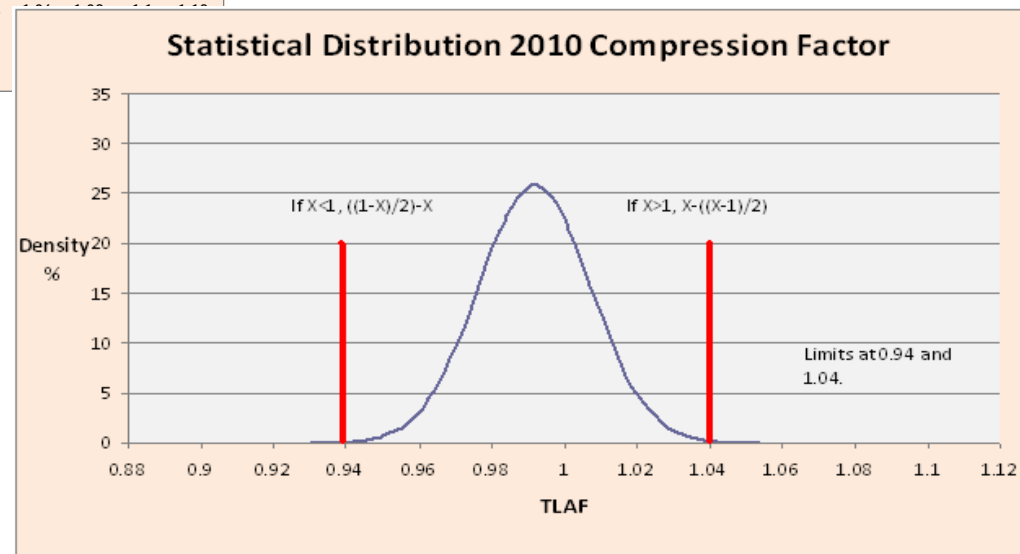
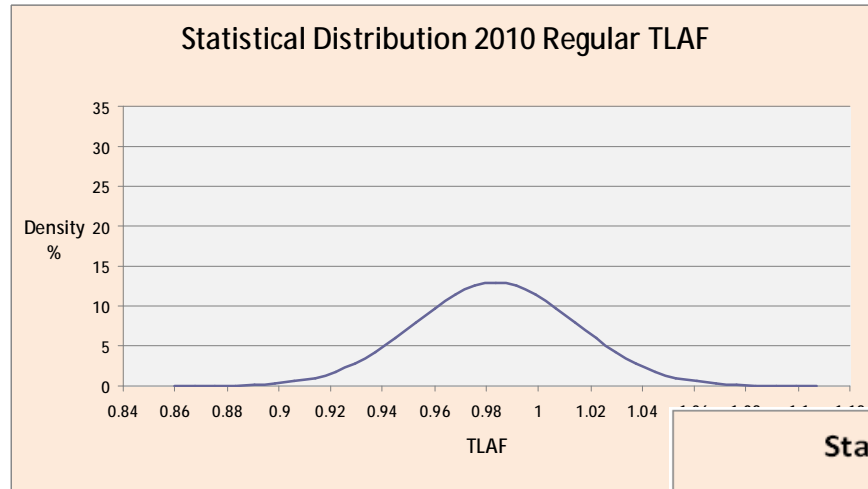
- If $X < \text{Normalisation Number (NN)}$,

$$\frac{(NN - X)}{2} + X$$

- If $X > \text{Normalisation Number (NN)}$,

$$X - \frac{(X - NN)}{2}$$

Short term Compression Factor Method



Short term Compression Factor Method

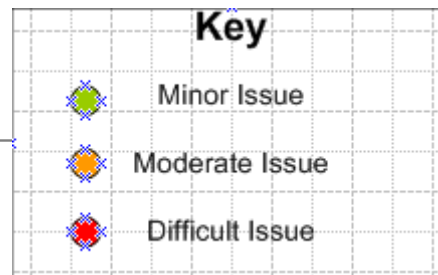
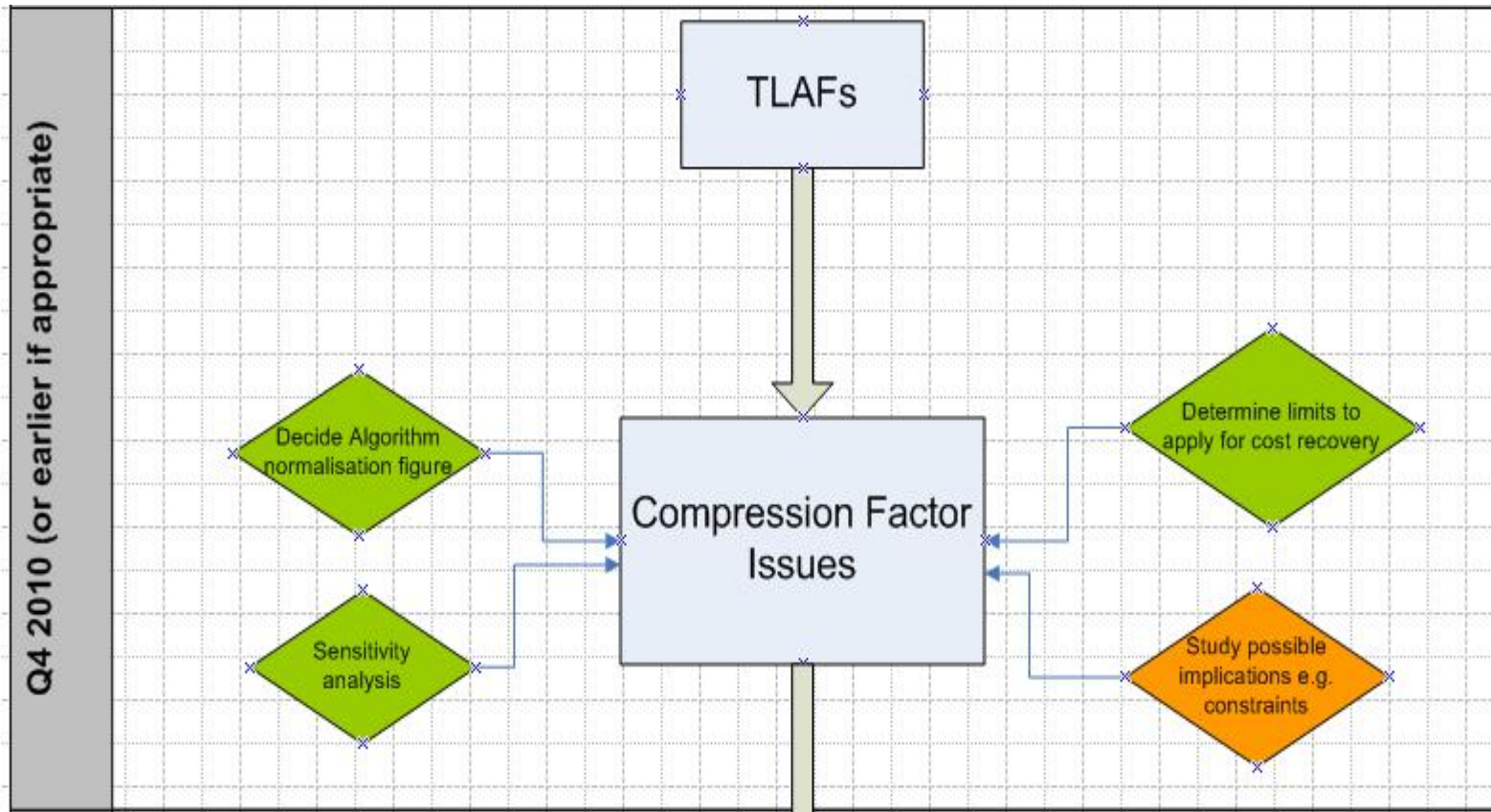
Recovery of Losses
HOW?

Short term Compression Factor Method

Benefits of Short Term Option

- Immediate Temporary Fix
- Merit Order Ranking Maintained
- Limits - Risk Abatement
- Reduction in effects of volatility

Issues with Short-Term Option



Medium Term- Splitting

One Node - Two
Separate Processes

**Further Study
Required**

Method for Loss
Optimisation in
Dispatch Scheduler



Uniform Loss
Factor in market
for everyone

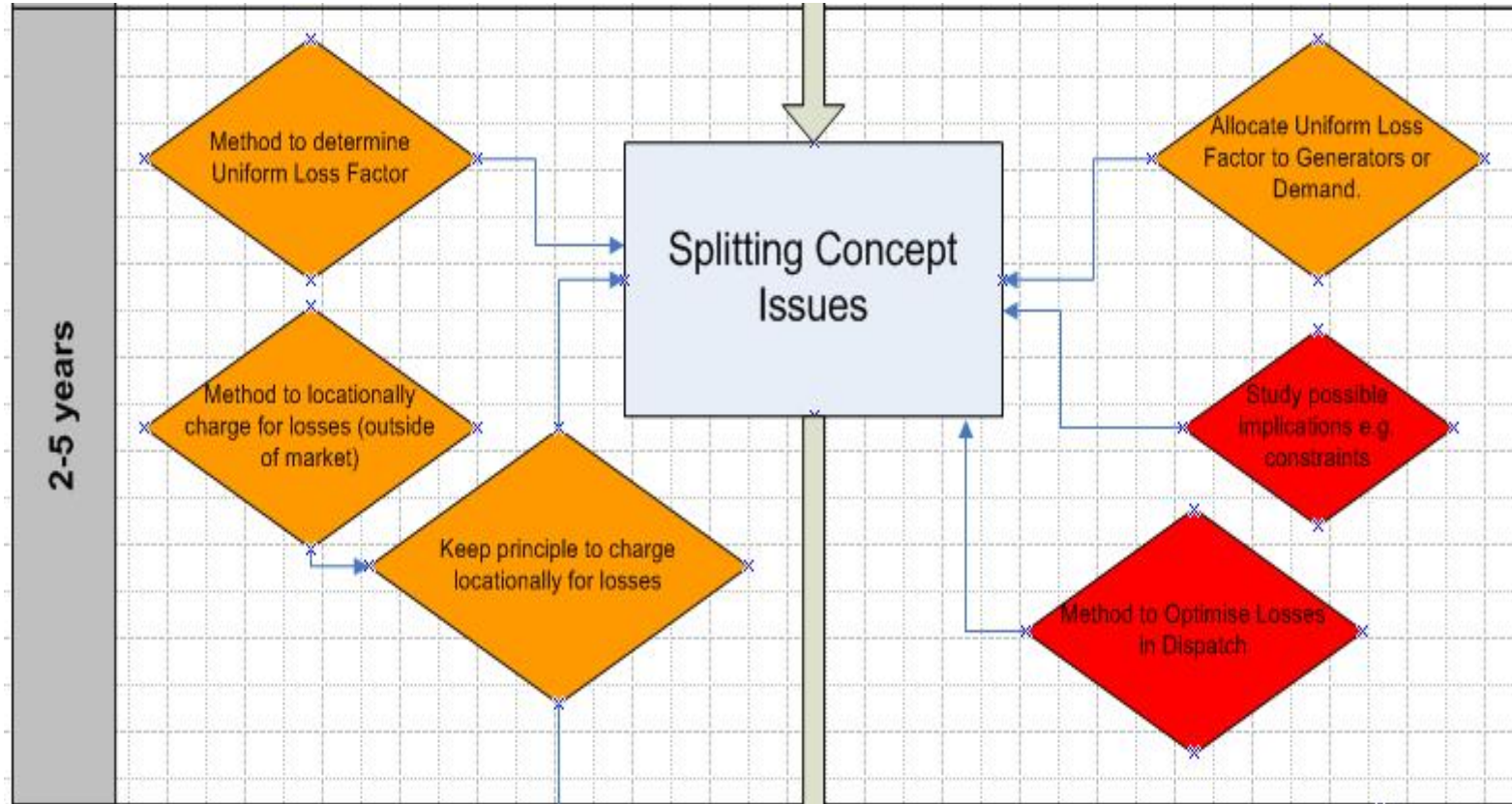


Medium Term- Splitting

Benefits of Medium Term Option

- Loss Optimised Dispatch Scheduling
 - In real-time
- Removal of volatility & predictability issues
 - MSQ/Merit Order unaffected by TLAF

Issues with Medium Term Option



2-5 years

Splitting Concept Issues

Key

- Minor Issue
- Moderate Issue
- Difficult Issue

Long Term - Purchase of losses

Further Study
Required



Meter



Meter



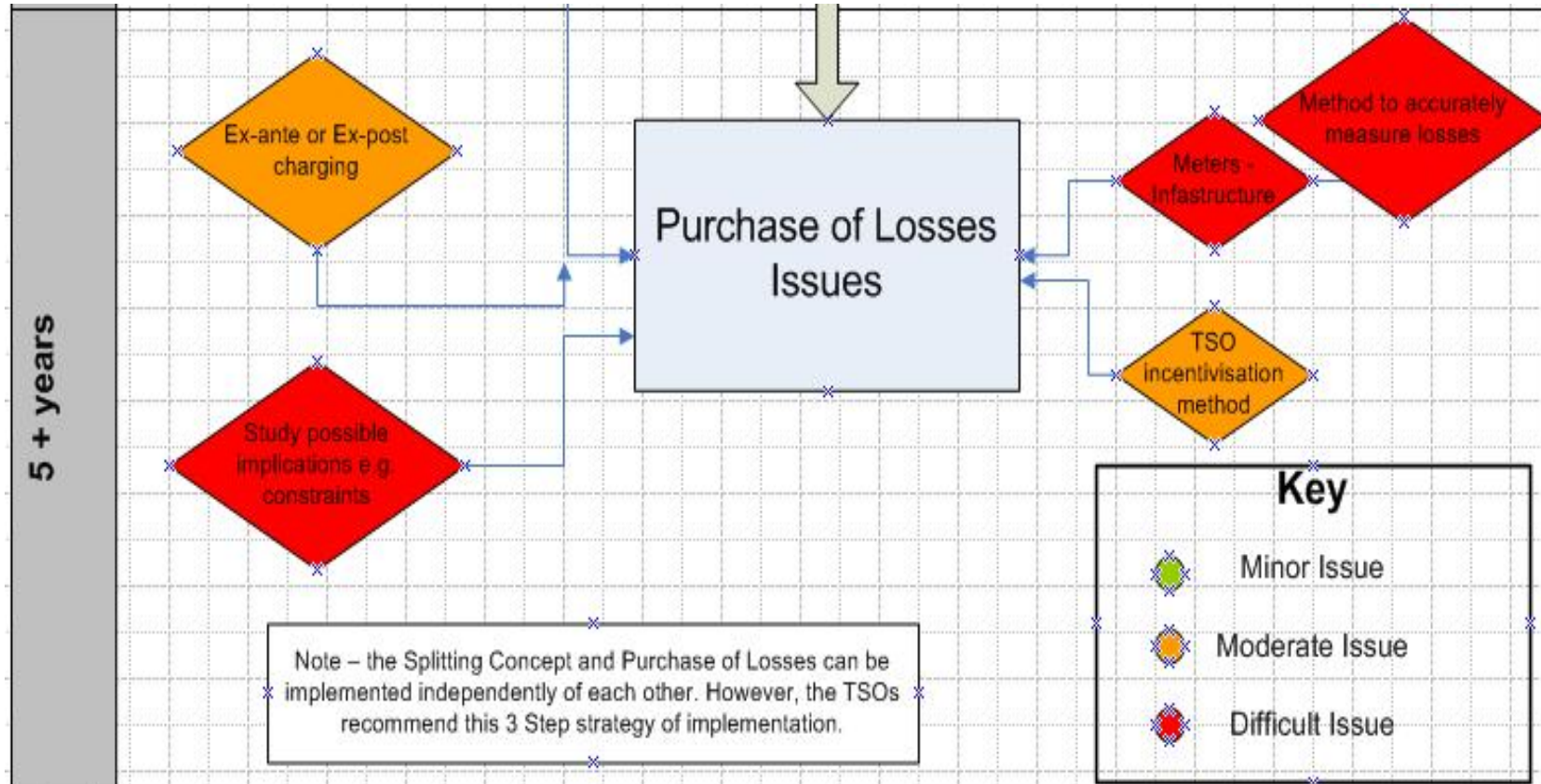
TSOs purchase the difference
between what the market pays
and what is measured at Gen
Meter.

Long Term - Purchase of losses

Benefits of Long Term Option

- Accurate Measurement of Losses
- Potential to Fulfil All Criteria
- Incentivisation

Issues with Long Term Option



Questions