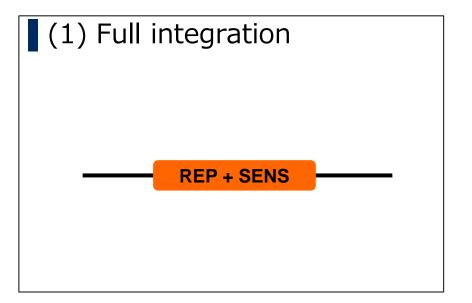
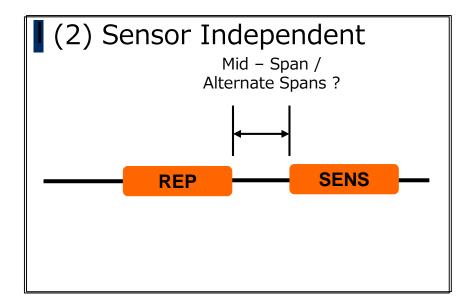
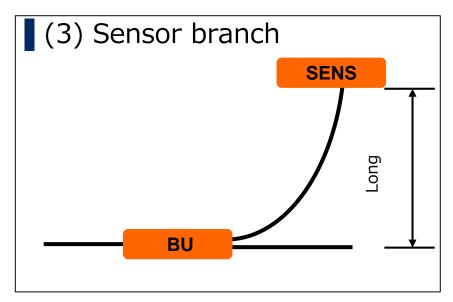
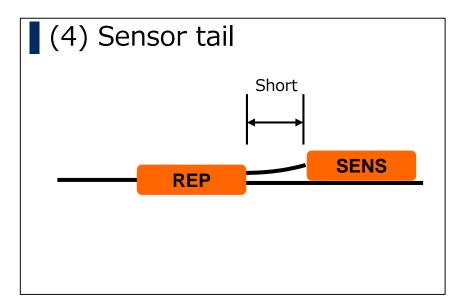
## Integration options

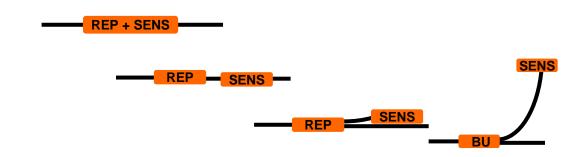








## Comparison of options



	Full integration	Sensor Independen t	Sensor tail	Sensor branch
Field-proven qualified solution	Yes	Yes	No	Yes
OK for pressure sensors	Yes	Yes	Yes	Yes
accelerometers	Yes	Yes	Yes	Yes
temperature sensors	No	Probably	Probably	Yes
Scalable to many REPs	Yes	Yes	Yes	No
Target sites of scientific interest	No	Yes*	No	Yes
Deployment complexity	Lower	Lower	Lower	Higher
Independent sensor	No	Yes*	No	Yes

## Financial Considerations

Example Hypothetical Transatlantic Cable System

5000 km, 65~100 Telecoms Housings

System Cost ~ US\$ 300 Million (NB: This is a fair estimate but not

specific)
This estimate

validated

<b>8fp</b> US\$36.25M	4fp US\$71.25M	Independen t NA	
US\$36.25M	US\$71.25M	NA	
US\$ 20M?	US\$ 20M?	US\$31M*	
Inc	Inc	US\$200K	
To be negotiated (Cost of Power impact to business case)	To be negotiated (Cost of Power impact to business case)	Cost of Power?  Level of O&M  To be negotiated	
t	wer impact o business	o business case)  Power impact to business case)	o business case)  Power impact Level of O&M To be negotiated