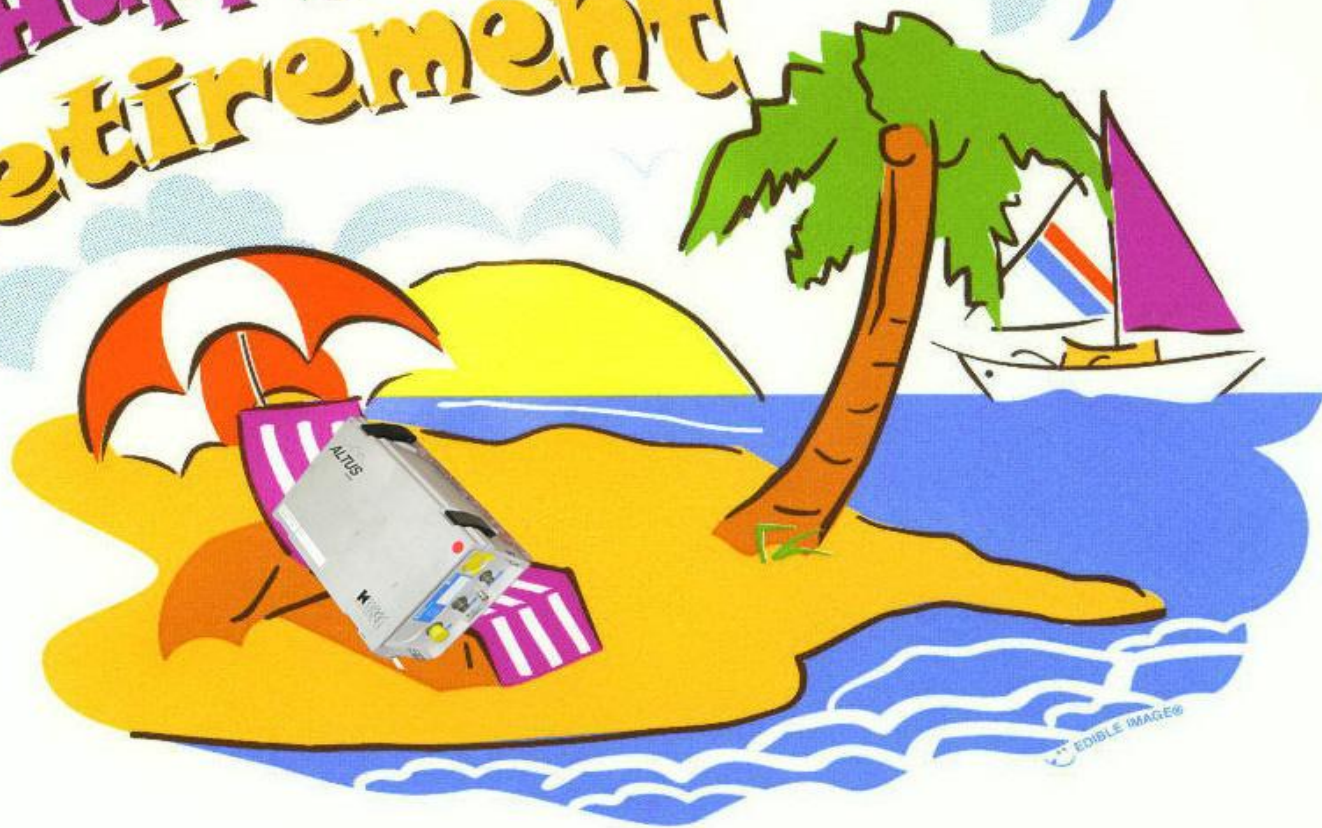


Equipment Life Cycles and Replacement Criteria

Happy
Retirement



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Everything goes bad or breaks eventually

How do we prepare for the inevitable?

How much is proactive vs reactive?

Survey Questions:

Replacement time for ->

1. Logger
2. Sensor
3. Battery
4. Is there any other equipment that is important to replace in life cycle?

Does your RSN have a policy for replacement?

Survey Results (part 1)

RSN	Logger	Sensor	Batteries	Misc	Policy
SCSN (So Cal)	10	10	10	NA	Update 10% each year
SCSN (So Carolina)	No goal	No goal	Switched to lithium	5000 life cycles for lithium battery	None
BSL	8	20	5	radio modems, switches/router, GNSS, solar panels	Limited to batteries
NCSN	10	20	5	Telemetry, network, electronic	Best case - if funded and staffed

Survey Results (part 2)

RSN	Sensor	Logger	Batteries	Misc	Policy
Depot/ASL	10*	10*	5	NA	
PNSN	10** But why change something that is working really well?	10**	10 is goal Reality is we monitor and replace if there is an issue		None
Alaska EC	As needed	As needed	8-10 with monitoring		

Thoughts? Pros and cons of retiring equipment that works?

When using Depot equipment, send it back when it breaks

Do you replace all the cables and related equipment when replacing a sensor or logger?

Sometimes equipment is discontinued by the manufacturer and the choice might be made for us

What about solar panel upgrades?

Any other additional equipment we should be monitoring and/or upgrading regularly?