

# RT Symposium STAC

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STAC

Direction générale de l'Aviation civile - Service technique de l'Aviation civile

[www.stac.aviation-civile.gouv.fr](http://www.stac.aviation-civile.gouv.fr)

# ABOUT STAC

The Civil Aviation Technical Centre (STAC) provides its technical expertise and support on airports and aeronautical matters to the French NSA.

Find more on:

<http://www.stac.aviation-civile.gouv.fr/en>



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# The remote tower project

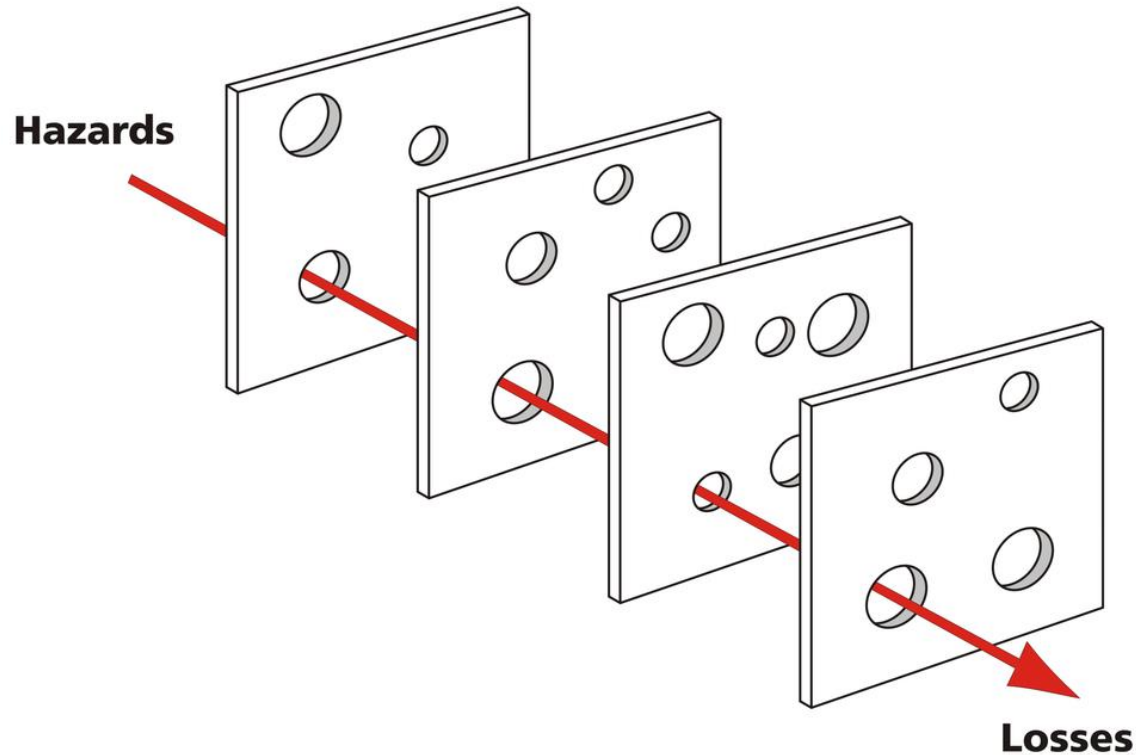


Why ?

- Increase safety ?
- Reduce cost ?

Temporary/Permanent ?

# Oversight of safety related changes



# EASA Check list

## RMT 0624 'Technical and operational requirements for remote tower operations'

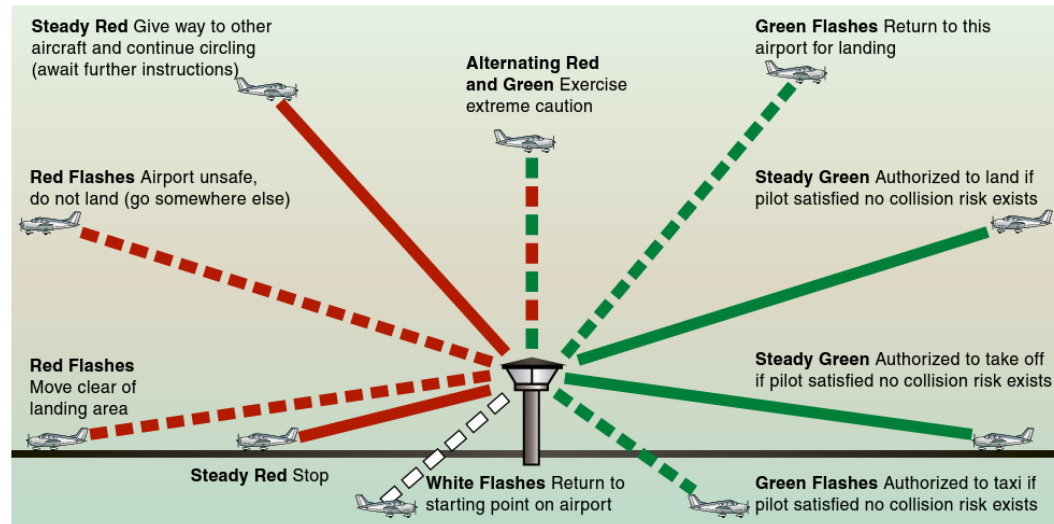
ED Decision 2015/014/R.

### Appendix 1:

## Checklist for the approval of the implementation of the remote tower concept

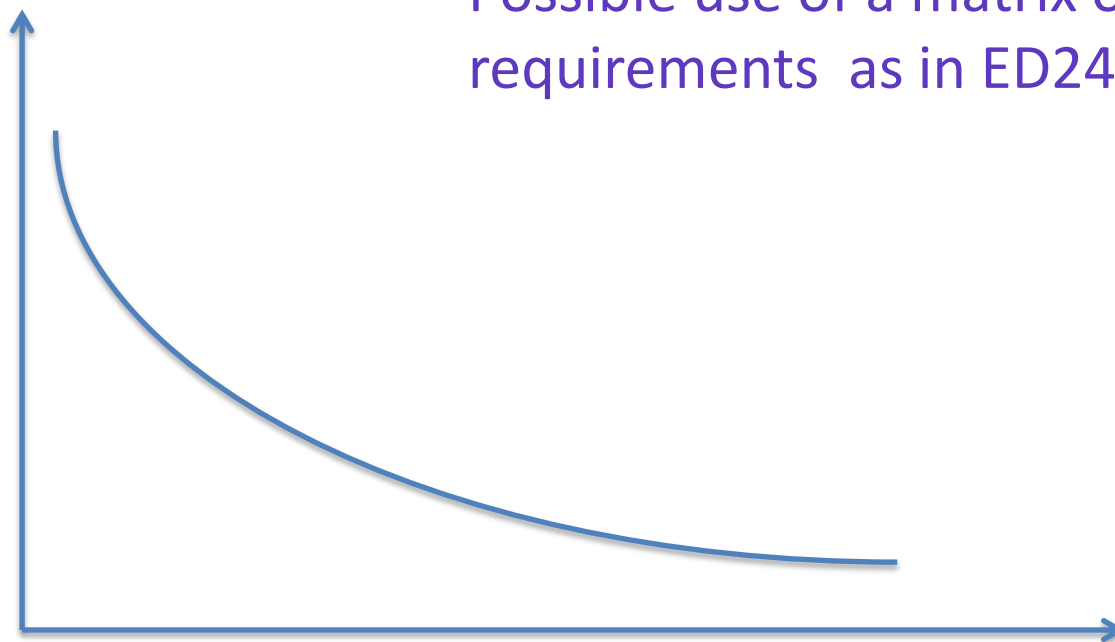
# Handling of break down

Unfortunately, it will break down!  
=> Check realistic procedures to detect and work around failures.



# The link (S)

Frame per second



Resolution

Typical resolution vs FPS tradeoff

# Human factor assessment

- Loss of distance information
- Spatial disorientation
- Loss of situation awareness
- ...



# Opportunity 1: review of ICAO requirements

ICAO requirements are based on local tower.  
Remote Towers push a review of them.

Some implicit requirements are not written:  
⇒ Coordination with airport operator.

ED240 put current requirements in question:  
=> The OTW view as lower requirements than the ATCO eyes.

# Opportunity 2: take benefit from the research done on RT

The RT concept is a unique opportunity to develop research on ATC at aerodromes.

We may have fortuitous benefits on:

- Training;
- Augmented vision;
- Safety nets;
- ...

# Conclusion

Take users into account !



Swamp cartoon used with permission.