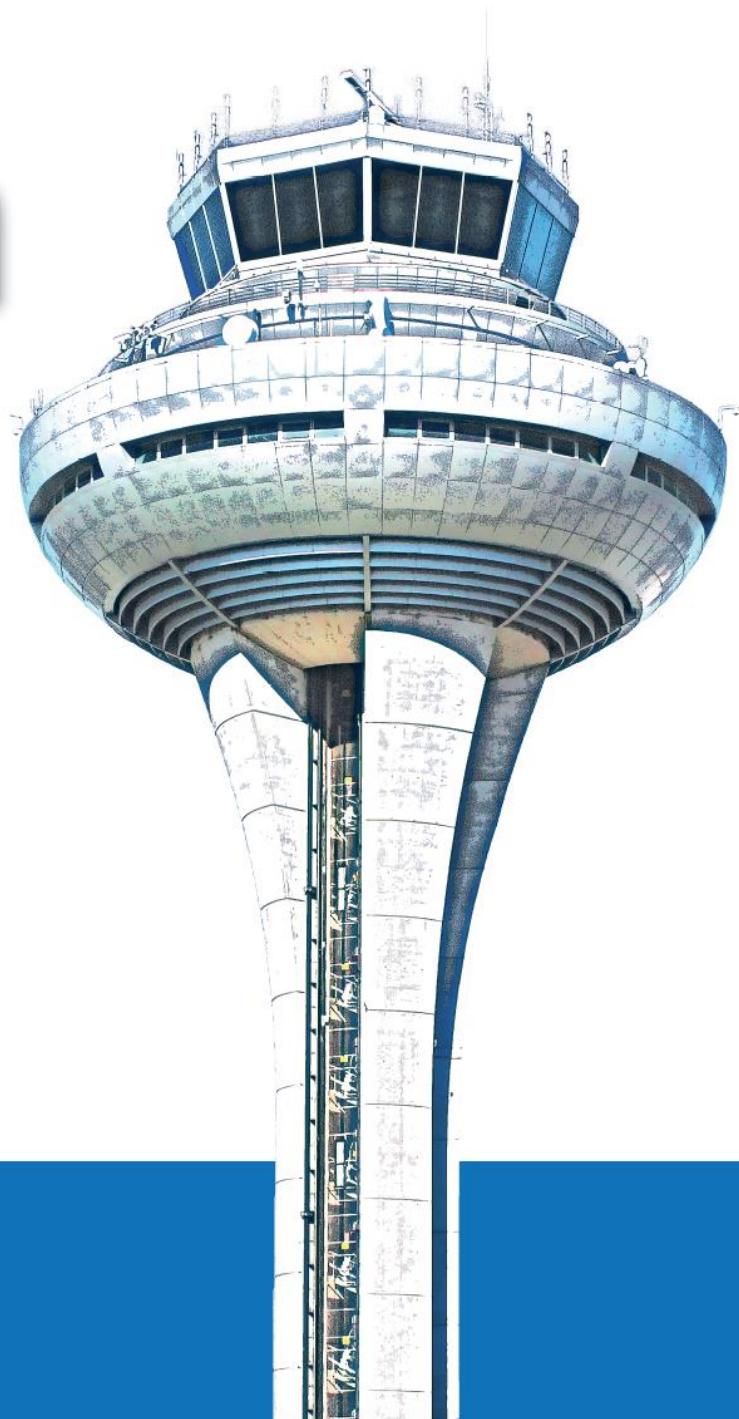




Asociación **profesional**
de **controladores**
de **tránsito aéreo**

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ATCO Resilience: Best Practices from Barcelona ACC

Guadalupe Cortés Obrero
Aprocta Human Factors Specialist

Eurocontrol Human Factors and System Safety Seminar
“Understanding Normal Work”
Barcelona, Spain, 5-7 October 2015



Asociación **profesional** de **controladores** de **tránsito aéreo**

- ✓ Spanish Professional ATCO Association.
- ✓ Non-profit and independent organization.
- ✓ Professional issues:
Safety, Operations and Training.

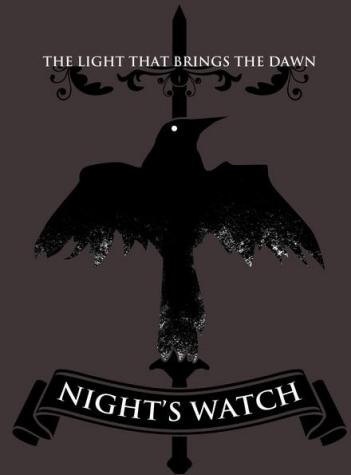
Our mission

To protect and safeguard the interests of the air traffic control profession in Spain.





THE LIGHT THAT BRINGS THE DAWN



“A man of the Night’s Watch lives his life for the realm.”

- Lord Commander
Jeor Mormont

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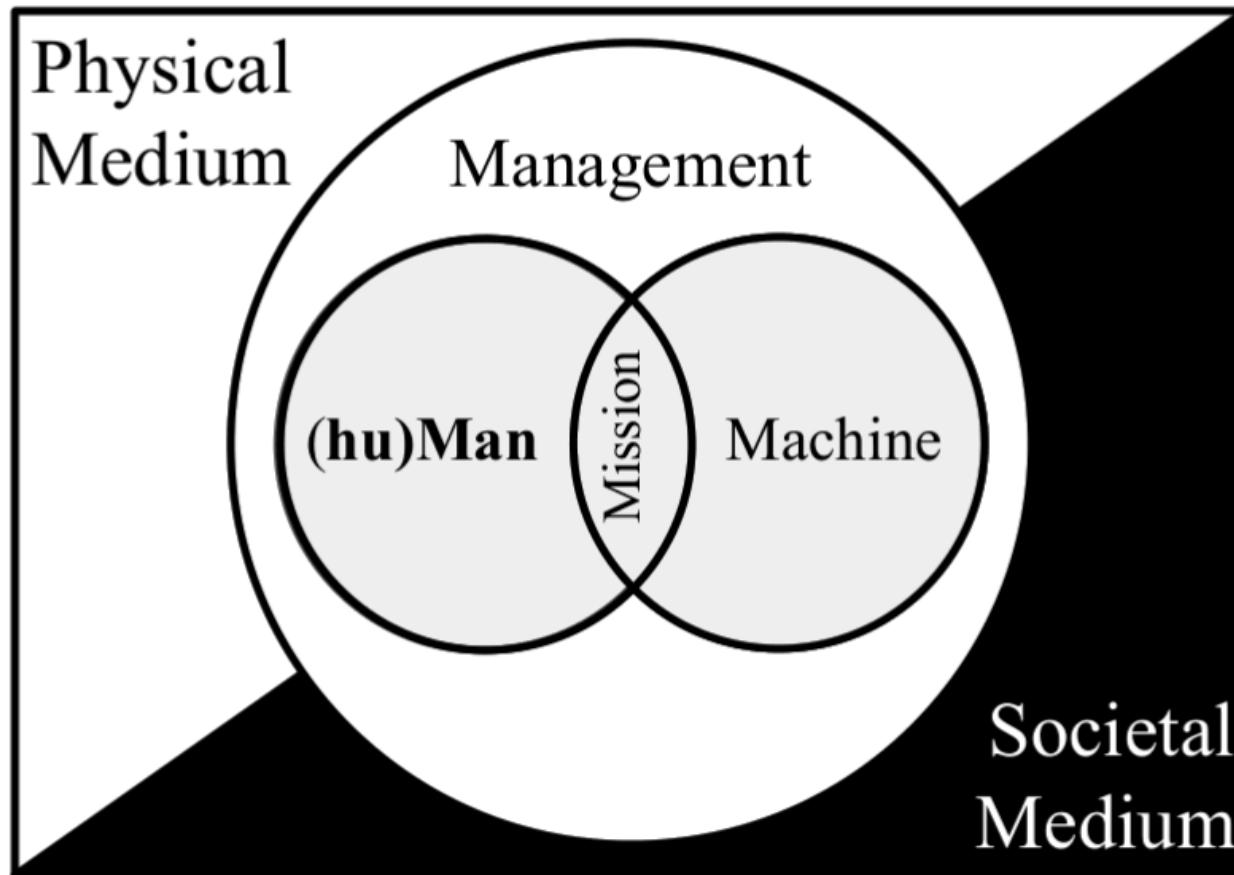


HOUSE
LANNISTER
«HEAR ME ROAR»

1. Human Factors
2. Safety I and Safety II
3. Work as Done and Work as Imagined
4. Resilience
5. Local Practices



1. Human Factors



The Five Ms Model

(Harris 2011, Figure 1.1: page 8)

Harris, D. (2011). *Human Performance on the Flight Deck*. Farnham: Ashgate.





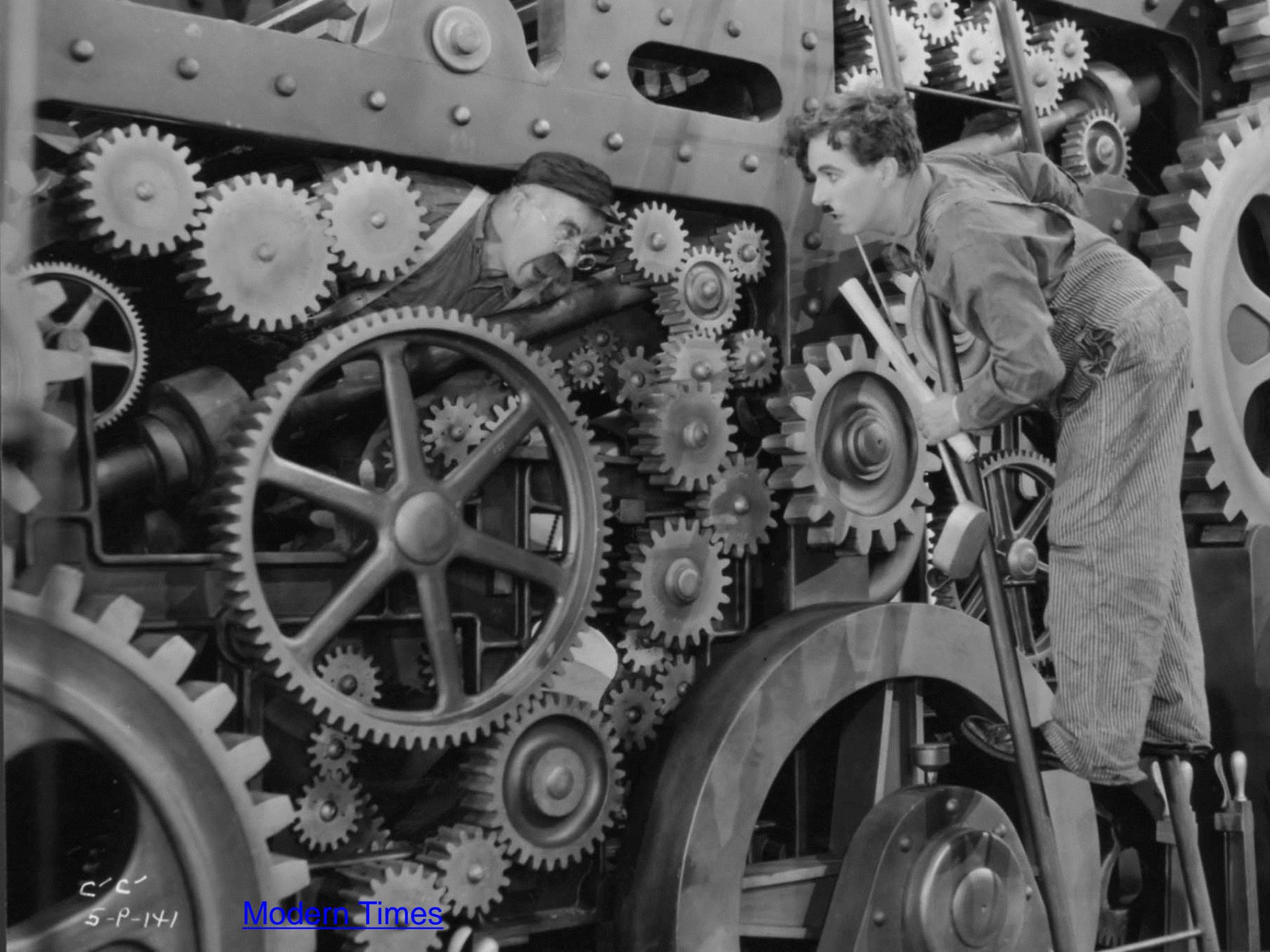




© Eurocontrol (2014). *Systems Thinking for Safety: Ten Principles. A White Paper*. Brussels: Belgium.

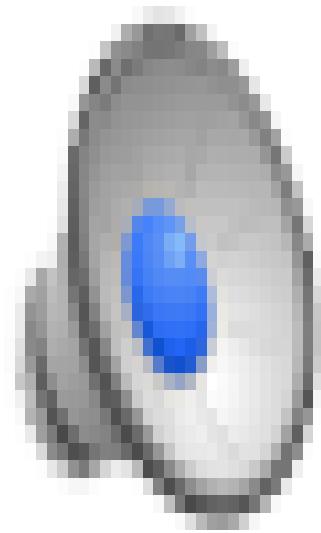


© Eurocontrol HF Case (2011).
Support Material for Human Factor Case Application, 3rd edition. Brussels, Belgium.



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2. Safety I and Safety II









3. Work as Done / Work as

Imagined

www.aprocta.es



Robert Baron, Ph.D

The Safety Space and Practical Drift. ©2014

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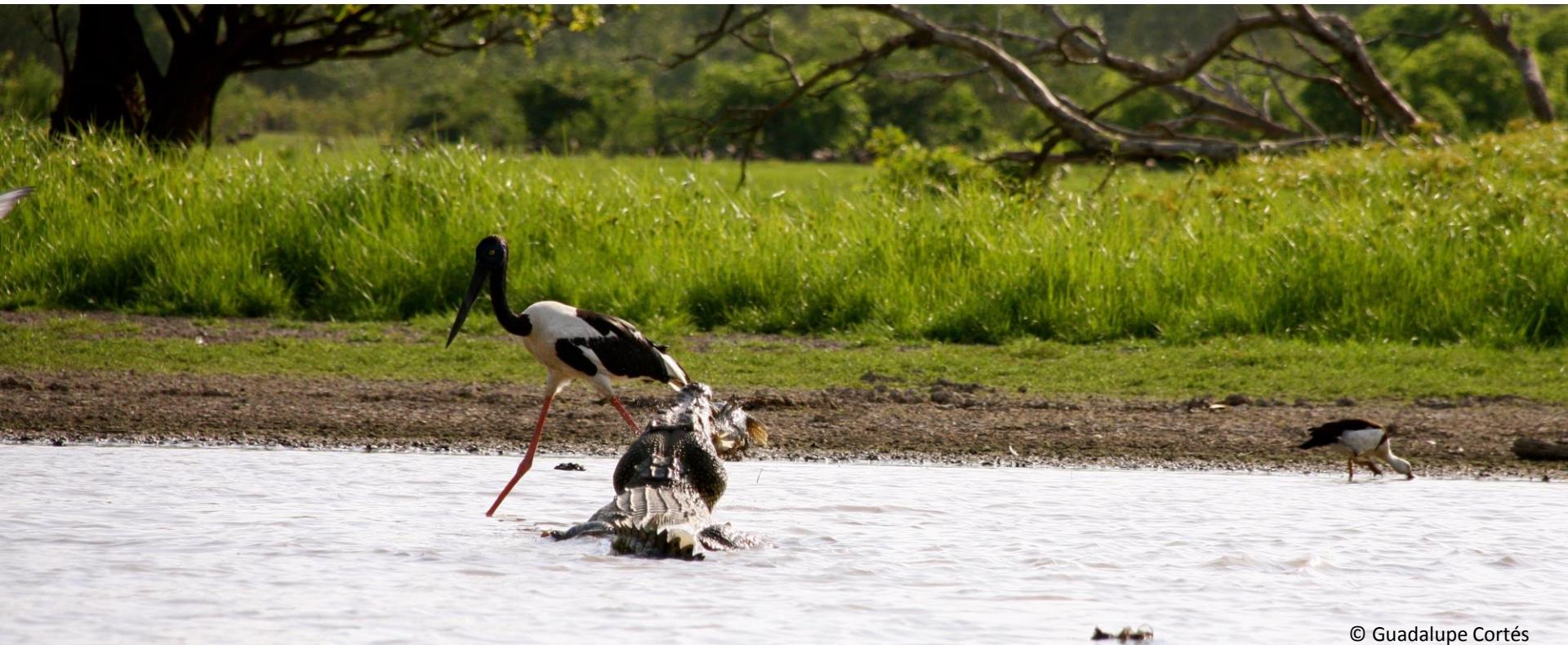
4. Resilience



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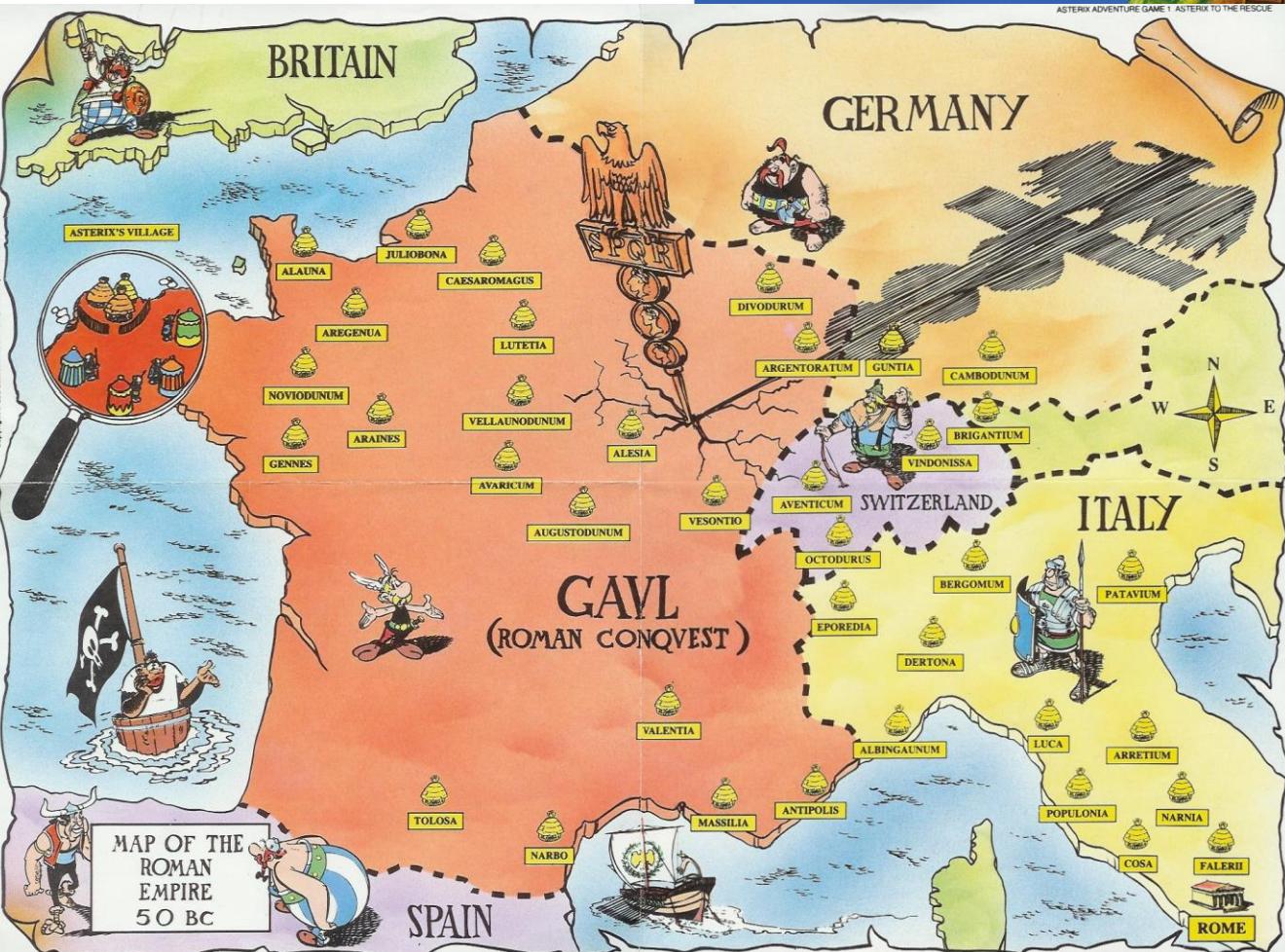
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“As God is my witness, as God is my witness, they're not going to lick me! I'm going to live through this, and when it's all over, I'll never be hungry again - no, nor any of my folks! If I have to lie, steal, cheat, or kill, as God is my witness, I'll never be hungry again.”







[Spanish ACC](#)



FOX SPORTS 1 HD
LIVE



Rinn na Spáinneach
SPANISH POINT

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5. Local Practices

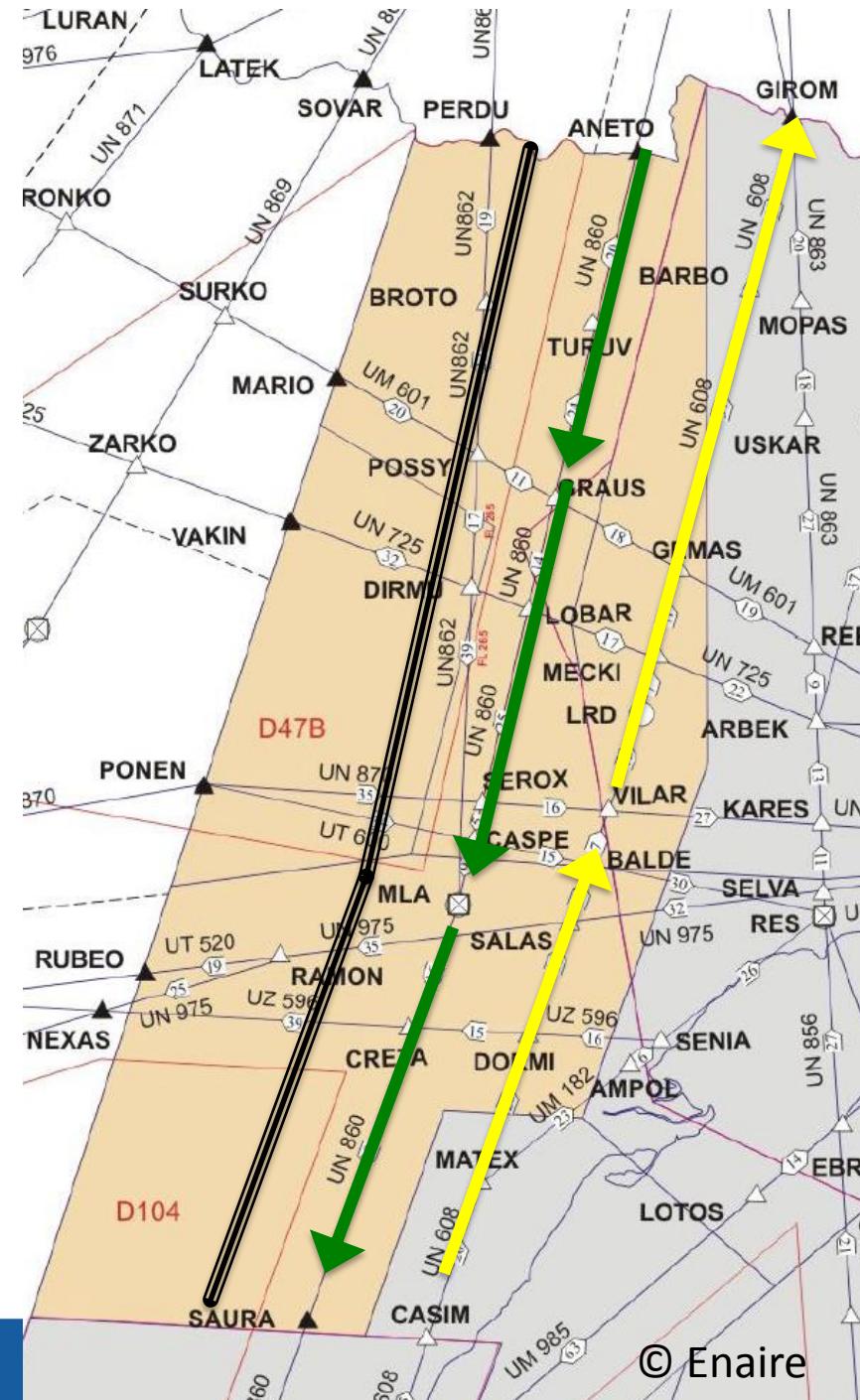
ENROUTE - PP2 SECTOR

NORTHBOUND TRAFFIC

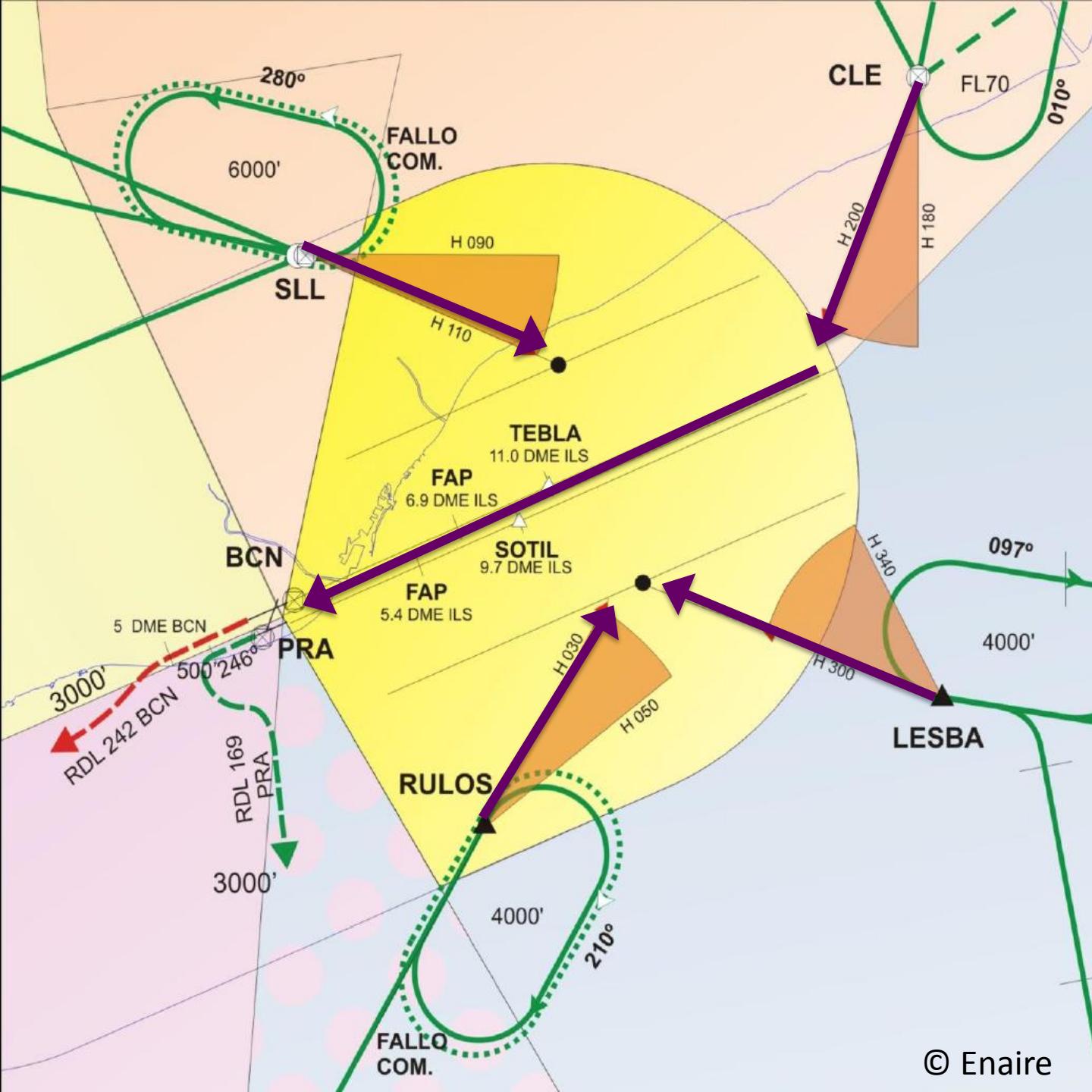
 **SOUTHBOUND**

TRAFFIC

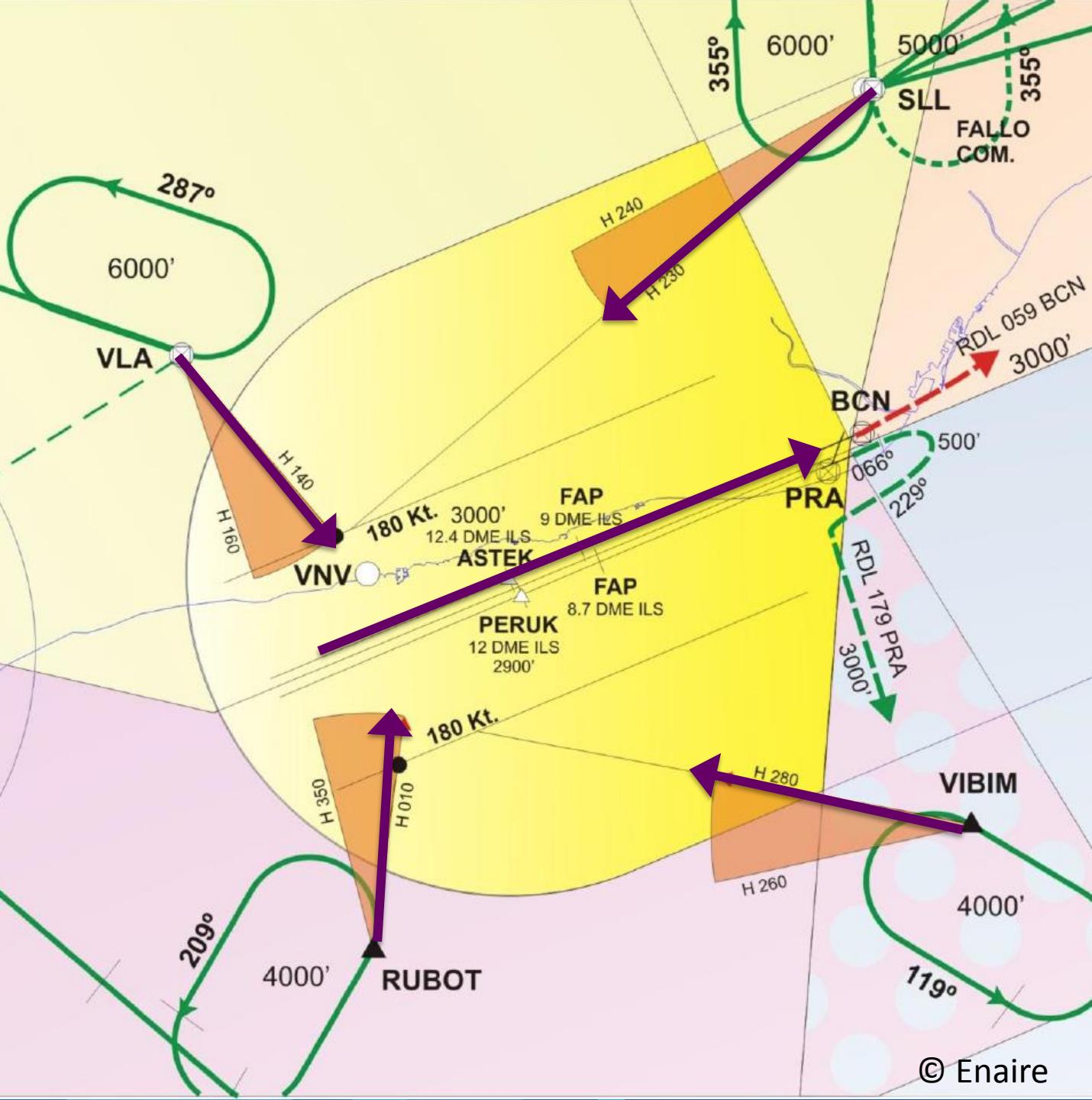
OFF-SET ROUTE



BARCELONA TMA
WEST Configuration
Final Sector Rwy 25

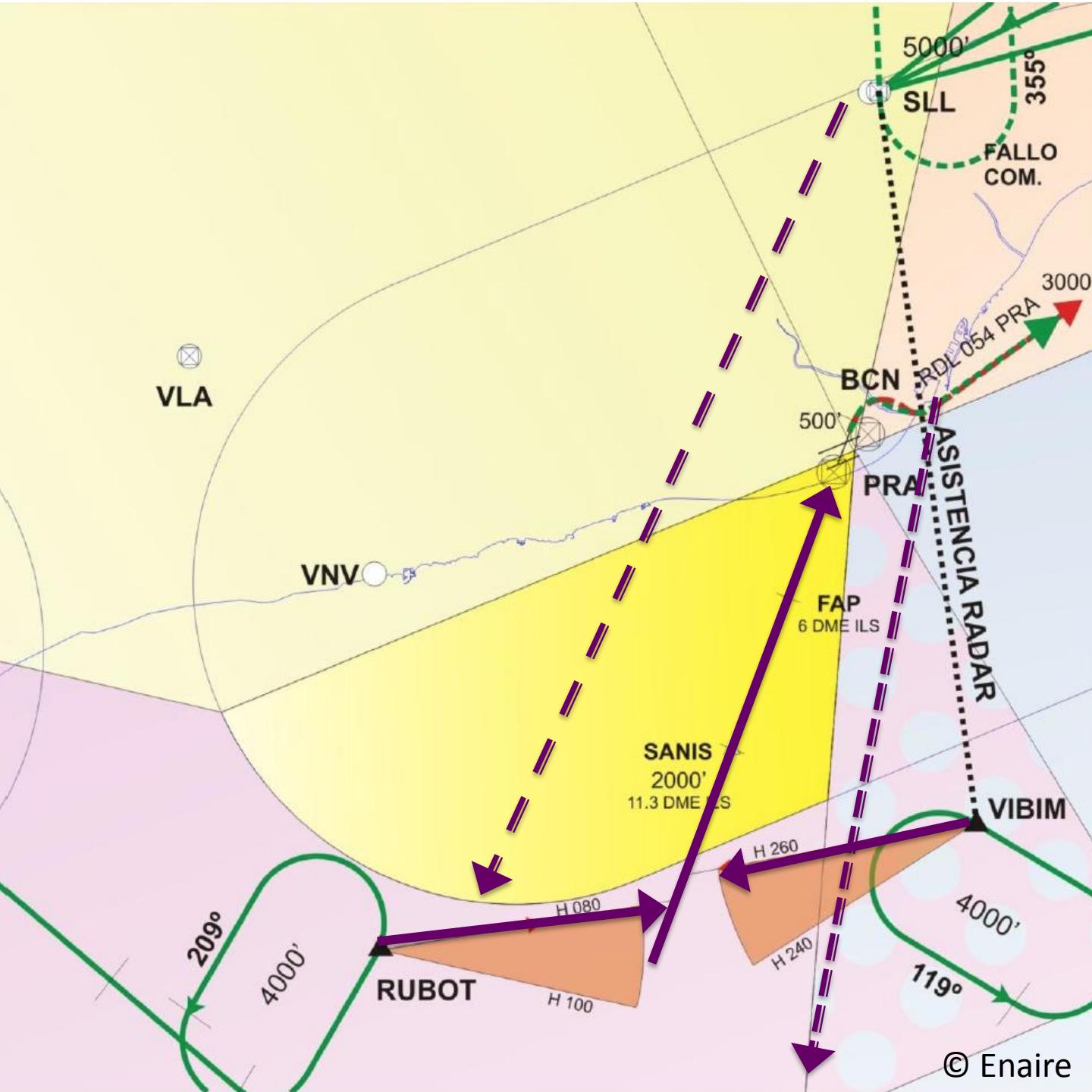


BARCELONA TMA EAST Configuration Final Sector Rwy 07



BARCELONA TMA North Configuration Final Sector rwy 02

- 2 IAFs
- 30 aircraft/hour
- No night configuration endorsement
- No assigned working positions
- 5NM separation to the Tower
- Two feeders (14 NM distance)









Questions?

Guadalupecortes



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