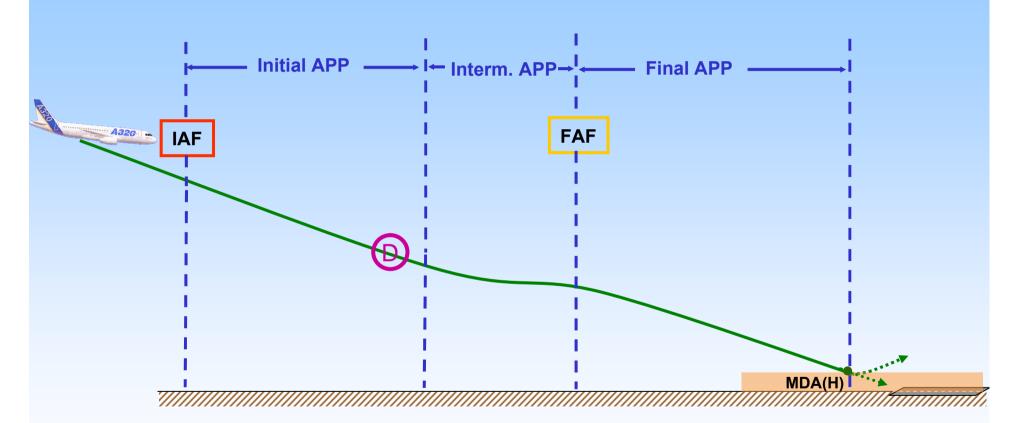
NON PRECISION APPROACH (MANAGED)



FLYING REF: TRACK/FPA (FPD)

PF	PNF
1.a. INITIAL	APPROACH
SEAT BELTSON/AUTO	ENG MODE selAS RQRD NAV ACCURACYMONITOR
When cleared to 3700 ft : DESCENTINITIATE	
FI.	MA CONTRACTOR OF THE CONTRACTO
BARO R	EF: QNH
APPRO	ACH C/L
	VAPP SPEED CSTR AT FAFINSERT
➤ LS P/B is OFF except for LOC approach	➤ Different approach strategies :
> 3 CONDITIONS FOR MANAGED APPROACH:	



1.b. INITIAL APPROACH

When cleared for approach:

APPR PB.....ARM

FMA

TRK/FPA.....SET

Approx 15 NM from touchdown

APPR PHASE ACTIVATION......CHECK

POSITIONING......MONITOR

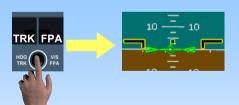
MANAGED SPEED......CHECK

SPEEDBRAKES.....AS RQRD

ND MODE/RANGE.....AS RQRD

ND MODE/RANGE...... AS RQRD













> For Lateral positioning properly monitor F-PLN sequencing



→ For Vertical positioning use V/DEV information



PF PNF

2	INIT	CEDI	MED		_ ^	DDE	20	Α.	\sim LI	
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RADAR TILT	-	ADJUST
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At green dot speed: FLAPS 1

DECEL TOWARDS S SPEED......TA or TA/RA

At S speed, below VFE next: FLAPS 2

DECEL TOWARDS F SPEED......CHECK

When FLAPS 2: GEAR DOWN

ECAM WHEEL PAGE......CHECK

GROUND SPOILERS.....ARM

AUTO BRAKE......CONFIRM

When L/G down, below VFE next FLAPS 3

When FLAPS 3, below VFE next: FLAPS FULL

DECEL TOWARDS VAPPCHECK

PF	PNF
3.a. FINAL	APPROACH
	After the FAF :
F	MA Check FINAL APP green
ANNOUNCE"SET GA ALT xx FT"	GO AROUND ALTSET ANNOUNCE"GA ALT xx FT SET"
POSITION/FLIGHT PATHMONITOR	A/THRCHECK SPEED MODE

PNF

3.b. FINAL APPROACH

WING A. ICE (if not required).....OFF EXTERIOR LIGHTS.....SET SLIDING TABLE.....STOW SLIDING TABLE.....STOW LDG MEMOCHECK NO BLUE

CABIN REPORT.....OBTAIN (CM1)

CABIN CREW.....ADVISE

LANDING C/L

FLT PARAMETERS.....CHECK 0



OBSERVE ECAM MEMO

LDG LDG GEAR DN

LDG INHIBIT LDG LT

3.c. FINAL APPROACH

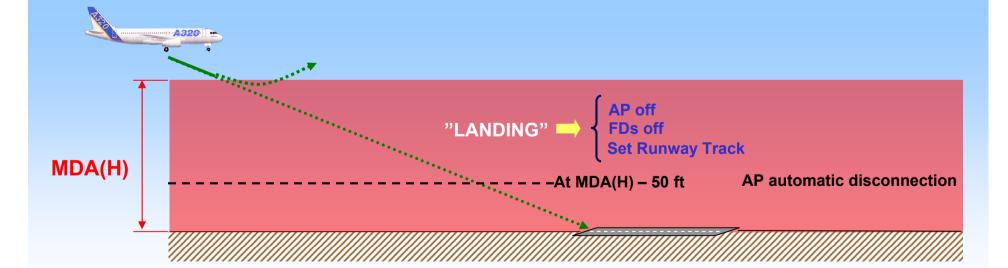
At MDA(H) +100 ft:

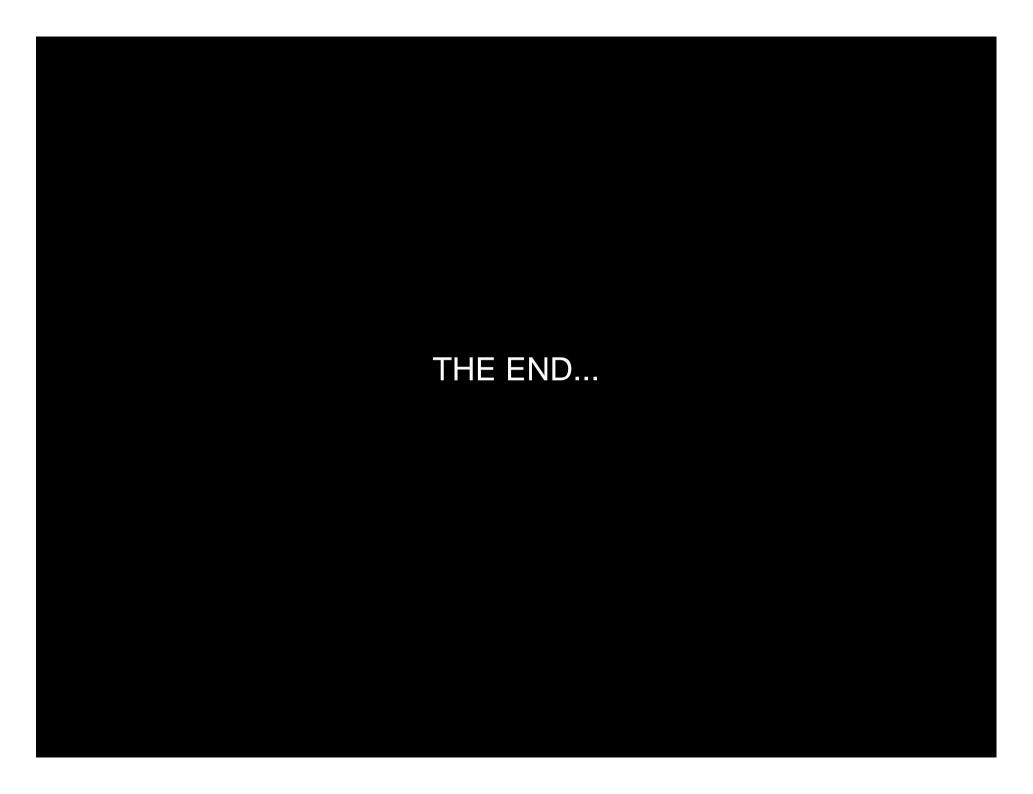
MONITOR OR ANNOUNCE....."ONE HUNDRED ABOVE"

MONITOR OR ANNOUNCE....."MINIMUM"

ANNOUNCE"LANDING" or"GO AROUND/FLAPS"

At MDA(H):







When GPS PRIMARY avail



No NAV ACCURACY required

When GPS PRIMARY lost



Use raw data to check NAV ACCURACY



PROG

If <u>check is negative</u> use <u>Selected</u> guidance for ILS interception

If the FMGS detects <u>low NAV ACCURACY</u>, then the enhanced modes of the <u>EGPWS</u> are automatically deactivated

STABILIZED APPROACH



Entering VAPP as SPEED CONSTRAINT at FAF...

...will displace the D upstream





APPROACH STRATEGIES



> Lateral and vertical <u>selected</u> guidance:



> Lateral managed guidance and vertical selected guidance:

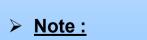


This type of guidance can be used provided the approach is stored in the navigation data base

> Lateral and vertical managed guidance:



Whatever the strategy, the Final approach must be monitored laterally and vertically, using adequate raw data (altimeter, reference navaid)







PF	PNF
1.a. INITIA	AL APPROACH
SEAT BELTSON/AUTO	ENG MODE selAS RQR
	NAV ACCURACYMONITO
When cleared to 3700 ft :	
DESCENTINITIATE	
	FMA
BARO	REF: QNH
ADDD	

VAPP SPEED CSTR AT FAF.....INSERT



- > LS P/B is OFF except for LOC approach
- > 3 CONDITIONS FOR MANAGED APPROACH:
- 1) Approach is in the database
- 2) GPS PRIMARY or NAV ACCURACY has been checked
- 3) Approach is validated by the airline for use of FINAL APP mode and not modified by the crew

PNF PF 1.b. INITIAL APPROACH **BOTH PILOTS** When clear **APPR PB..** ARC, or..... TRK/FPA.... **ROSE VOR,** Approx 15 N or..... **APPR PHAS POSITIONIN ROSE NAV MANAGED SPEEDBRA** 0 + 0 S RQRD 🕕 ND MODE/R TRK FPA > For Later: with navaid raw data ➤ For Vertic

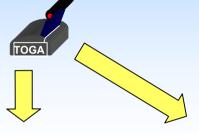
F-PLN SEQUENCING



> If the sequencing is not correct APPR NAV engagement is <u>not possible</u>



> GO AROUND mode :



SEQUENCING

NO SEQUENCING





NAV mode

No NAV mode

>F-PLAN is automatically sequenced in case of radial inbound

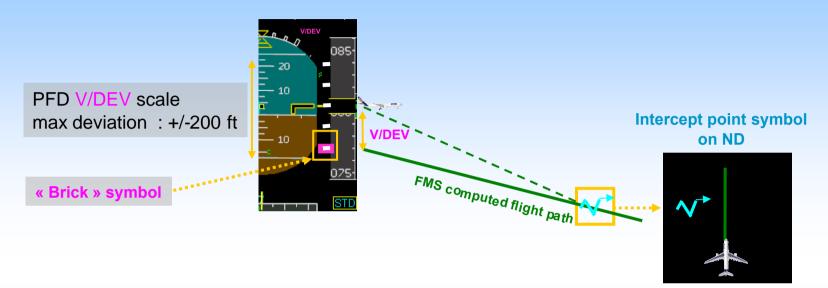








If APPROACH phase is active:





if GPS PRIMARY is not available, V/DEV information is reliable only when the NAV ACCY ckeck is positive

PF PNF

2. INTERMEDIATE APPROACH

RADAR TILTADJUST	RADAR	TILT	ADJUS1
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At green dot speed: FLAPS 1

DECEL TOWARDS S SPEED......TA or TA/RA

At S speed, below VFE next: FLAPS 2

DECEL TOWARDS F SPEED......CHECK

When FLAPS 2: GEAR DOWN

ECAM WHEEL PAGE......CHECK

GROUND SPOILERS.....ARM

AUTO BRAKE......CONFIRM

When L/G down, below VFE next FLAPS 3

When FLAPS 3, below VFE next:



FLAPS

➤ It is recommended to select <u>FLAPS FULL</u> at VFE next - 15 knots to minimize flaps wear.

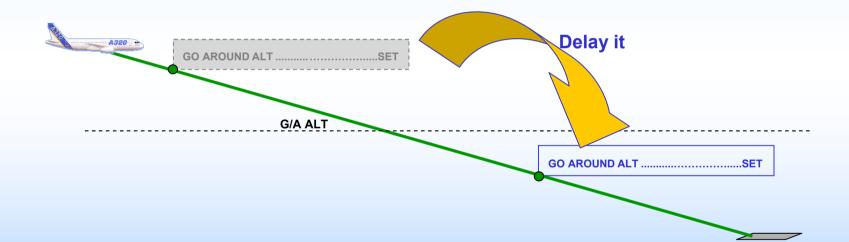
DECEL TOWARDS VAPPCHECK

GO AROUND ALTITUDE



In some cases the G/A ALT is under the current altitude of the A/C

> The pilot should delay the G/A ALT selection below G/A ALT



PNF 3.a. FINAL APPROACH

After the FAF:

FMA Check FINAL APP green

ANNOUNCE....."SET GA ALT xx FT"



GO AROUND ALT.....SET

ANNOUNCE....."GA ALT xx FT SET"

A/THR.....CHECK SPEED MODE

POSITION/FLIGHT PATH.....MONITOR



- > Monitor the engagement of FINAL APP mode using the raw data info
- > If FINAL APP does not engage, revert to selected approach :
 - - Select FPA convergent to the Final Descent Path so as to fly with VDEV=0
 - Do not try to rearm APPR
- > PNF Xchecks Altitudes and Distances with Landing charts



Announce any deviation in excess of FLT PARAMETERS:







5° ADF

