Nantucket Memorial Airport Commission

Master Plan Workshop

October 26, 2012



Agenda

- Introductions
- Master Plan 101
 - Airport Planning Issues
 - Noise Abatement Activities
 - Environmental Monitoring
 - Public Outreach Program
- Next Steps, Questions, Issues?



Master Plan 101

- What is an airport master plan and why is it important?
- What is covered?
- What is the schedule?
- How does the public participate?



A Master Plan Is...

- Study of current airport uses and deficiencies
- Process to identify priority projects to help airport operate efficiently and safely
- Opportunity to look at the big picture how does airport interact with island community and how can interactions be improved
- Analysis of environmental impacts and mitigation
- Framework for 5 year Capital Improvement Plan (CIP) to set FAA Entitlement \$ and Airport investment budgets

What is Covered in the Master Plan?

- ACK role/trends & 20-year aviation forecasts
- Inventory of existing conditions & needs
- Airfield design evaluation
- Airport Layout Plan
- Noise abatement
- Environmental stewardship
- Ground transportation
- Consistency with community goals
- Capital Improvement Plan
- and more



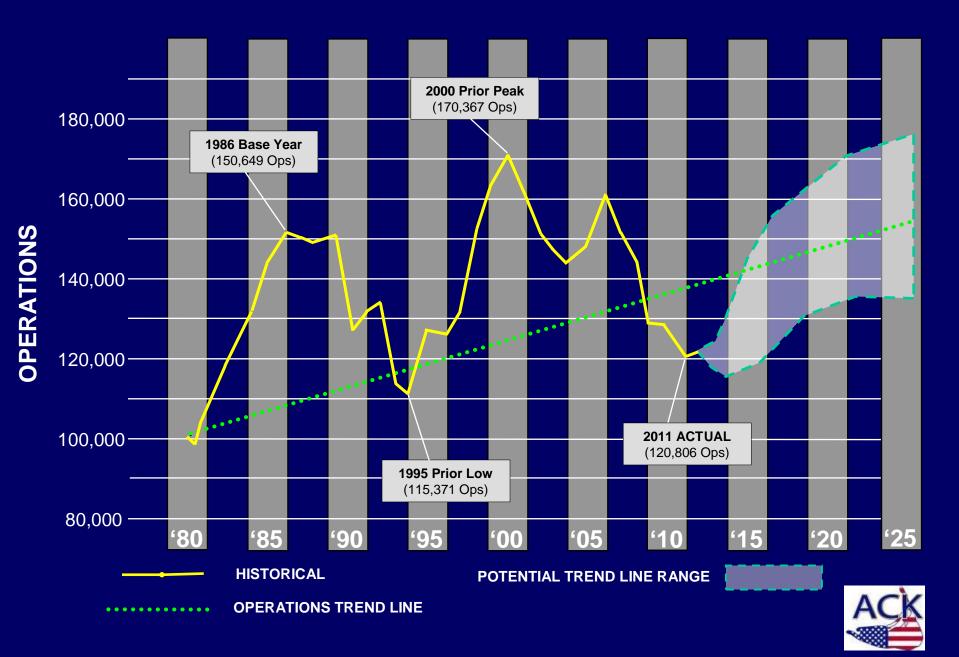
ACK Trends

- Demand is increasing second busiest airport in Mass.
- Mix of General Aviation aircraft is changing
- Congestion due to changing GA fleet
- Larger corporate jets



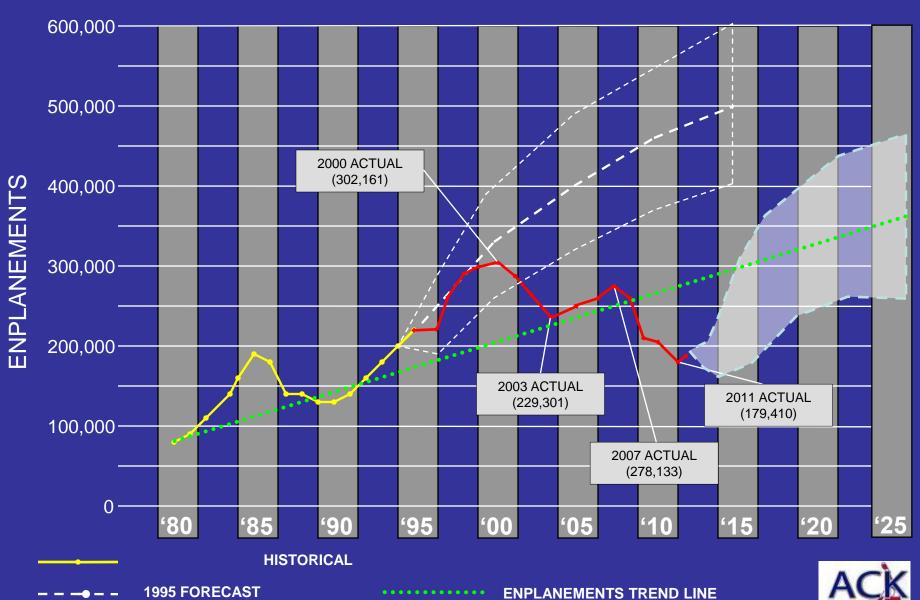
Flight Operations Forecast

NANTUCKET MEMORIAL AIRPORT



Passenger Enplanement Forecast

NANTUCKET MEMORIAL AIRPORT



ACTUAL SINCE MASTER PLAN FORECAST (1995)

POTENTIAL TREND LINE RANGE



Inventory of Existing Conditions & Needs Recent Projects/Current Issues

Completed Projects

- Terminal Building and new ARFF Building
- Runway 33 extension 500' south
- Study of South Apron safety & capacity issues
- South Apron noise monitoring
- General Aviation/Admin Building (to be completed)

Current Issues

- Ramp Electrification (FAA rejected funding request)
- Runway 33 taxiway alignment
- South Apron Environmental Assessment (on Hold)
- Air Traffic Control Tower Rehabilitation
- On-Going Noise Abatement Initiatives
- Ongoing Environmental Monitoring Program
- Photovoltaic (solar) field proposals (on Hold)
- GIS Base Plan and Utilities GIS Master Drawing
- Airspace Protection Plan
- Airport Budget & Financial Planning
- Airport Rates & Charges Update



Planning Issues

Current Airport Safety & Operational Layout Issues

- Mix of Large and Small GA aircraft
- Apron Parking of Large Corporate Jets
- South Ramp Congestion
- Control Tower Improvements
- RW33 Extension & Need for Parallel Taxiway
- Bunker Area Aviation Use
- Bunker Area Non-Aviation Use
- GIS Base Plan and Utilities GIS Master Drawing
- Potential Photo-Voltaic Facility Site
- On-going Noise Mitigation Efforts
- On-going Environmental Monitoring Needs



South Apron Parking as Designed



South Apron Parking as Currently Used





Tight Taxi Clearances on the South Apron





Tight Taxi Clearances on the South Apron



Existing Conditions - South Apron Study Area





Ongoing Noise & Air Quality Mitigation

Ongoing noise abatement includes:

- Enforcement of 15-min. APU use rule
- Park jets with engines turned from homes
- Educational handout for pilots and GA passengers
- Over-water landing approaches
- Noise abatement flight tracks
- MOU with air traffic control tower staff
- Air traffic tracking system to help enforce noise policies
- Call-in number and complaints-tracking system
- Opportunities to reduce back-taxi distance and exhaust (Taxiway D)



Apron Noise & Air Quality Mitigation Park Engines Aimed Away from Homes

←To Runways
To Homes →





Future Noise Mitigation Concepts

Future noise mitigation could include:

- Earth berm
- Noise wall
- Ground Power Units

(All of the above require FAA approval & funding)

Nighttime user fees (Not Permissable)

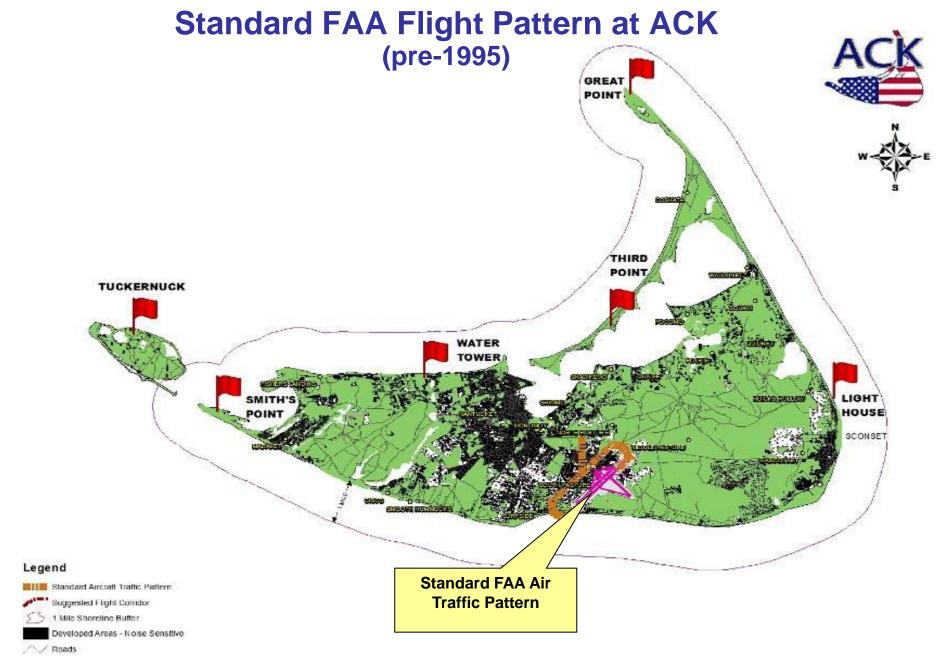


Taxiway D Widening



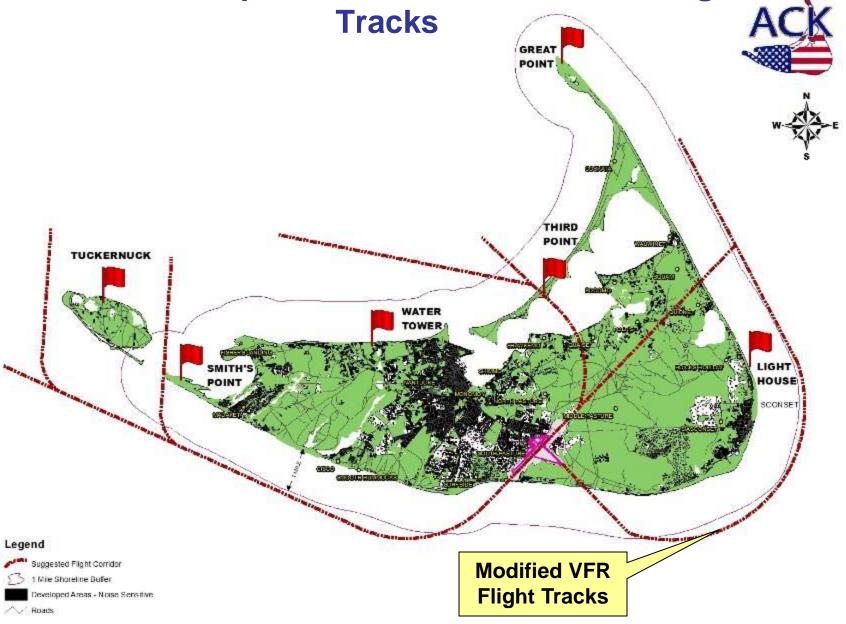


Noise Mitigation



On-going Noise Mitigation:

Avoid Developed Areas with Over-Water Flight



Runway 33: New 500-Foot Extension Enables Increased RW33 Over-Water Landings





Runway 33 East Side Taxiway Alternative



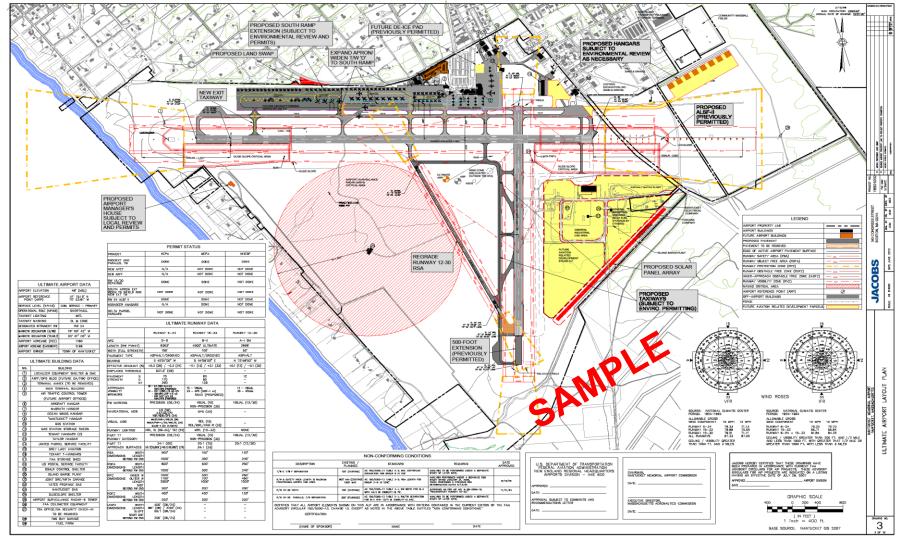
Runway 33 West Side Taxiway Alternative





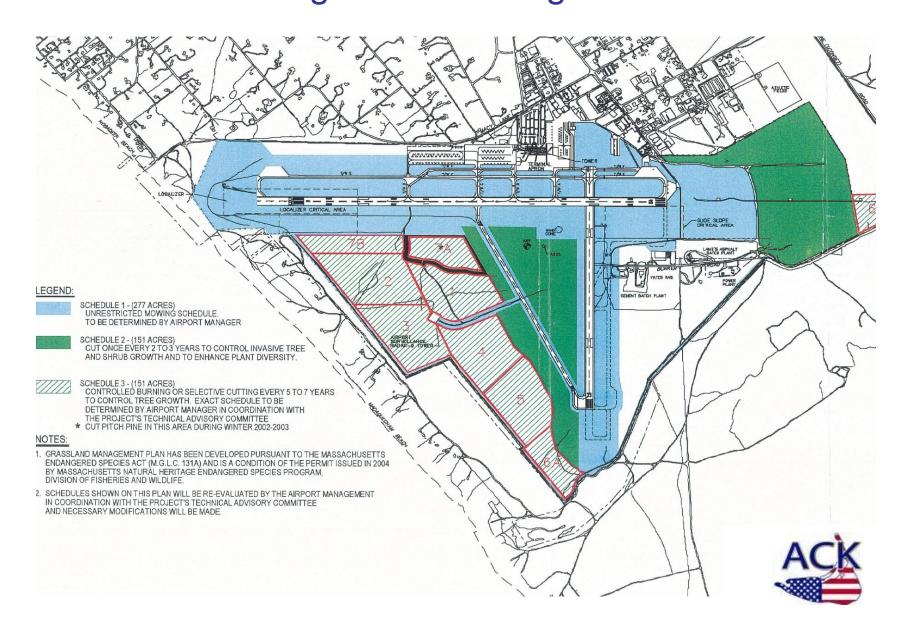
Airport Layout Plan (ALP)

SAMPLE





On-Going Environmental Monitoring MESA Vegetation Management Plan



Environmental Program Elements

- Compliance with current MESA Permit
- Controlled Burn & Habitat Monitoring
- Historic/Archaeological & Tribal Coordination
- Sustainability Assessment/ Energy Audit
- Renewable Photovoltaic/ Solar/ Wind initiatives
- Greenhouse Gas mitigation objectives
- On-Going Noise Monitoring
- Noise Contour Mapping
- SWPP & SPCC Updates
- Traffic Reduction Concepts: Taxi, Bus, Bikes



Budget & Financial Planning

- Airport funds come from user fees & FAA
- Rates and charges will be updated
- FAA funds are both entitlement funds and discretionary funds
- Discretionary FAA funds are competitive
- Projects that address safety issues are priority projects for FAA Entitlement \$\$
- FAA restricts how its funds can be spent

FAA Capital Improvement Program (CIP)

NANTUCKET MEMORIAL AIRPORT - Proposed FY13-14 FAA CIP

2013 (@ 90% FAA Reimb.; 7.5% STATE; 2.5% ACK)		FAA Entitlement	FAA Discretionary	MASS DOT	AIRPORT	TOTAL
"Replace MITLs on R/W 12-30; Replace 5,000 LF of Fence"		\$393,300		\$32,775	\$10,925	\$437,000
Infrastructure for "PAPIs and REILs for R/W 33"		\$315,000		\$26,250	\$8,750	\$350,000
"Widen & Relocate T/W D and Remove R/W 33 Pad"		\$337,500		\$28,125	\$9,375	\$375,000
"Master Plan/GIS Base Mapping/Enviro-Surveys"		\$675,000		\$56,250	\$18,750	\$750,000
Sub-Total Projects 1 thru 6		\$1,720,800		\$143,400	\$47,800	\$1,912,000
	FY '13 Estimated ENTITLEMENT	\$1,600,000				
	SUBTRACT FY 2013 PROJECTS	-\$120,800				
	Unused Entitlement from FY '12	\$908,300				
	CARRYOVER FROM FY '13 TO FY '14	\$787,500				

2014 (@ 90% FAA Reimb.; 5% STATE; 5% ACK)		FAA Entitlement	FAA Discretionary	MASS DOT	AIRPORT	TOTAL
"EA/EIR Permitting/Compliance Program"		\$315,000		\$17,500	\$17,500	\$350,000
"Taxiway E (& Run-up Pads) Mill and Overlay; Replace 5,000 Feet of Fence"		\$1,844,100		\$102,450	\$102,450	\$2,049,000
Sub-Total Projects 1 thru 3		\$2,969,100	\$1,234,100	\$164,950	\$164,950	\$3,299,000
	FY '14 Estimated ENTITLEMENT	\$1,600,000				
	SUBTRACT FY 2014 PROJECTS	\$1,369,100				
	Unused Entitlement from FY '13	\$787,500	446,600			

Commission's Role in Master Plan

- Help identify & define issues for Master Plan
- Participate in planning process at key milestones
- Get others involved
- Help identify ways we can keep you up to date:
 - Meetings
 - Newsletters
 - Robust airport web page with master plan documents and updates
 - Presentations at neighborhood events
 - Participate on Working Group
 - **—** ?



Public Outreach Program Expansive & Open Planning Process

- Working Group
- Meetings and Workshops
 - Public focus groups
 - Informational meetings
 - Speakers Bureau
- Events
 - Airport tours and Open Houses
 - Fly-a-Friend / Fly-a-Reporter
- Communications & Public Information Pieces
 - Airport Master Plan web page
 - Airplane seat-back inserts or bill stuffers
 - Social media (Facebook and Twitter)
 - Media releases at key milestones



Master Plan Working Group/ Advisory Committee

Purpose of Working Group

- Provides input to Goals & Objectives and long-range planning
- Forum to freely present issues, ideas and provide guidance

Structure of Working Group

- Three subcommittees: Airside, Landside, and Environmental
 - Discussions related to aviation, flight safety, community concerns, planning, coordination, fiscal and legal issues
 - Provide linkage to various groups that members have been drawn from as communicators to larger Island-wide community

Composition of Working Group

- Members from Airport, tenants, users, NPEDC, FAA,
 MassDOT, community groups and general public
- Diverse range of community interests and opinions



Schedule

Master Plan

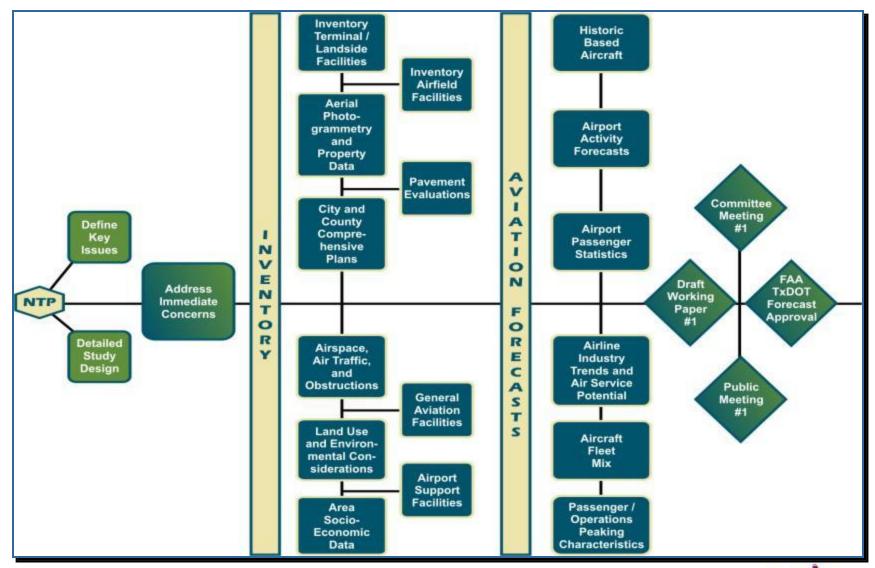
- Winter 2012–13 create Working Group
- Ongoing environmental monitoring
- May 30, 2013 Complete scoping/ID 3-Phase Approach
- May 30, 2014 Identify needs/ priorities/ projects/CIP \$;
 complete Master Plan/ ENF/ Scope EA Grant
- June 30, 2015 Complete Environmental Assessment for 5-year CIP Projects

Financial Plan

- July 2013–May 2014 Draft and final 5-year plan consistent with MP
 - ! Public outreach throughout process!

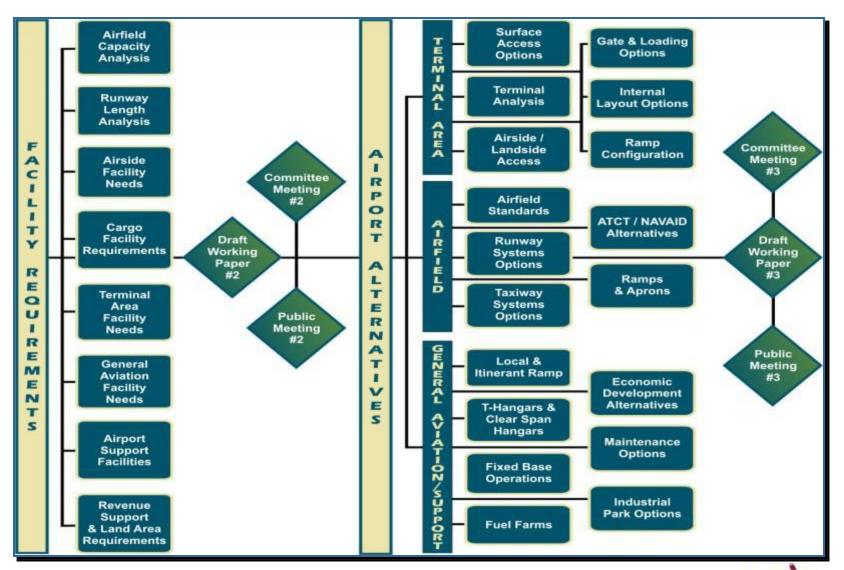


Master Plan Schedule - Phase 1 Tasks (Typ.)



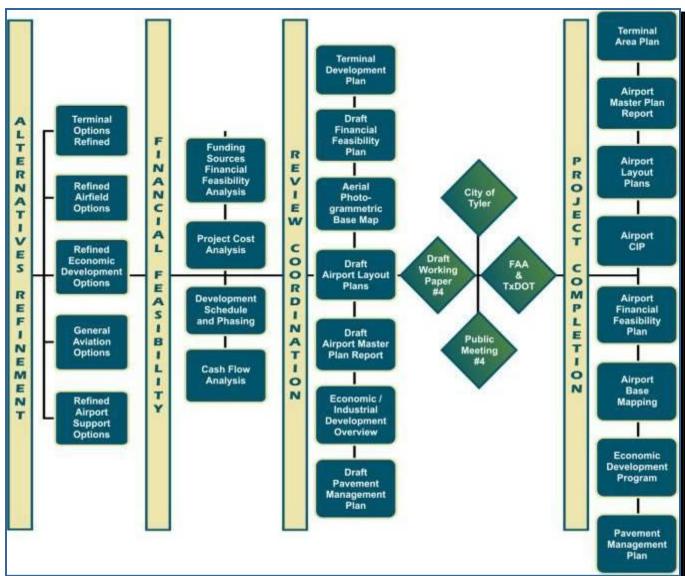


Master Plan Schedule - Phase 2 Tasks (Typ.)





Master Plan Schedule – Phase 3 Tasks (Typ.)





Next Steps:

- Form Working Group
- Develop Draft Scope of Work for Master Plan
- Hold kickoff Working Group meeting to review scope, process & schedule (approx. Feb. 2013)
- Hold Client Group meeting with FAA & MassDOT Aeronautics on Scope





Discussion

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