History Marenco
Green Field Approach

A helicopter from pilots for pilots
• Shortest possible ways from potential customers to the development
• The customer and its operation in mind

Implementation of automotive standards and concepts

• Modern development and simulation tools
• Lean production
• Early supplier involvement in the design phase
• High detail perfection
Why

Helicopter pilot
Engineering Design
Challenge
Interesting technique

Nice market
Overaged products
Unhappy customers
Innovation potential

Passion for helicopters
History

Light helicopter concept 2002
Alternative engines
Business plan
Decision 2.5 to class, largest turbine segment (numbers)
Intensive search for an investor
Start of the development of the SKYe SH09 December 2009
Design History

1987

2002

2007

2009

2013
Development Pfäffikon

Pfäffikon
Projectmanagement Design Engineering Manufacturing Warehouse Tests Supply Chain
Manufacturing Mollis

Mollis Linth Air Service
Hangar Assembly Testing
Test – Dynamik - Certification

Ennetmoos
Tests

Südafrika
Dynamik Windtunnel

Germany
Certification
Infrastructure

Whirl Tower Gearbox Testbench
Technology Innovation

Develop new technological solutions e.g. to gain speed
Implementation Innovation

Improve the concept through the implementation of established technologies e.g. detail solutions and quality in cars
The helicopter is not a new concept, but a new helicopter developed considering the use of latest available technologies and new ideas.
Customer driven Design

- Calculable cost of ownership
- Reliable service
- Flexible Cabin layout
- Excellent Hot and High Performance
- Modern Avionics, Scalable, Consistent User Interface
- Reliability
- Low noise signature
- Ergonomic and comfortable work place
AS350 share is larger than all the three others together.
Western Market

- 8 western manufacturers
- Small series, ca. 1200 helicopter per year
- Last development in our market segment, first delivery 1976
- Need for new products is large
- Internationality
  - Customer act international, many customers have their own maintenance organisations
  - the customer does not need a service station around the corner
  - the customer awaits fast response for spare parts worldwide
Cabin

High flexibility

Sliding Doors
No Posts
Crashresistant Single Seats
Rail System for flexibility

Spacious cabin, single seats on rails, 6 to 8 seats
Clam shell doors, easy loading for EMS, large baggage compartment
Rotorsystem

Less vibrations, less noise
Sling Load

Excellent view to place sling load
Heli Expo 2011 - 2015

A very large success
September 2014 100% RPM
First Flight 2. October 2014
Thank You