

CASE NORWEGIAN INF3290

Bendik Bygstad

IFI 19.September 2016

Case: Norwegian

- Starting in 2002
- Deregulation of air traffic in Scandinavia and Europe



Today:

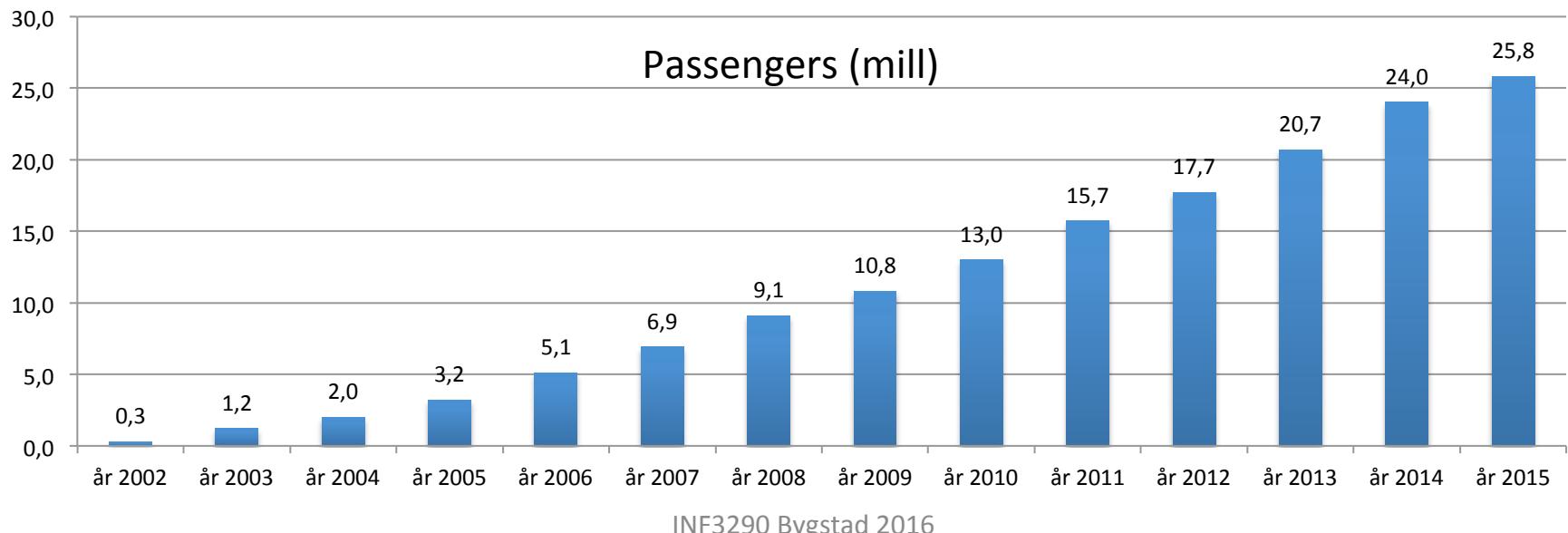
- 391 routes to 125 destinations in Europe, Middle East, Thailand og USA.
- 20 mill passengers in 2013
- 3000 employees
- Revenues 2.5 bn Euro (15.5 mrd NOK)



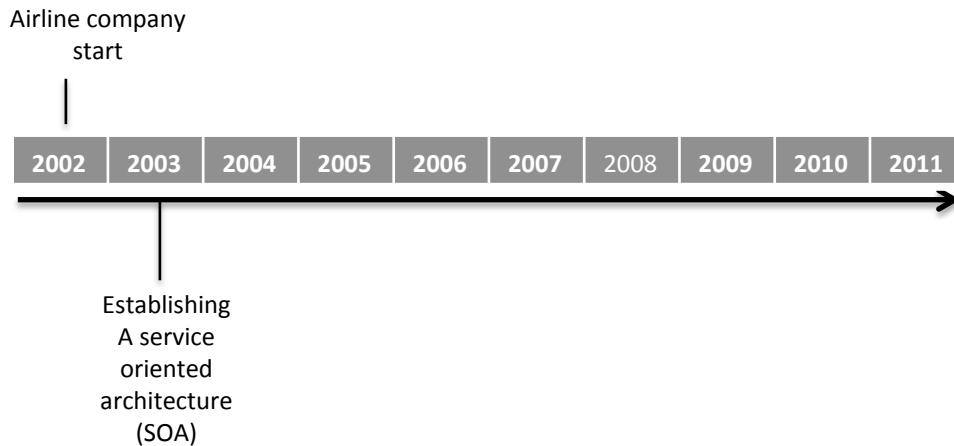
Bygstad, B. and Aanby, H.P. (2010) "ICT Infrastructure for innovation : A case study of the enterprise service bus approach". *Information Systems Frontiers*, 12(3): 257-265.

Key Figures Norwegian

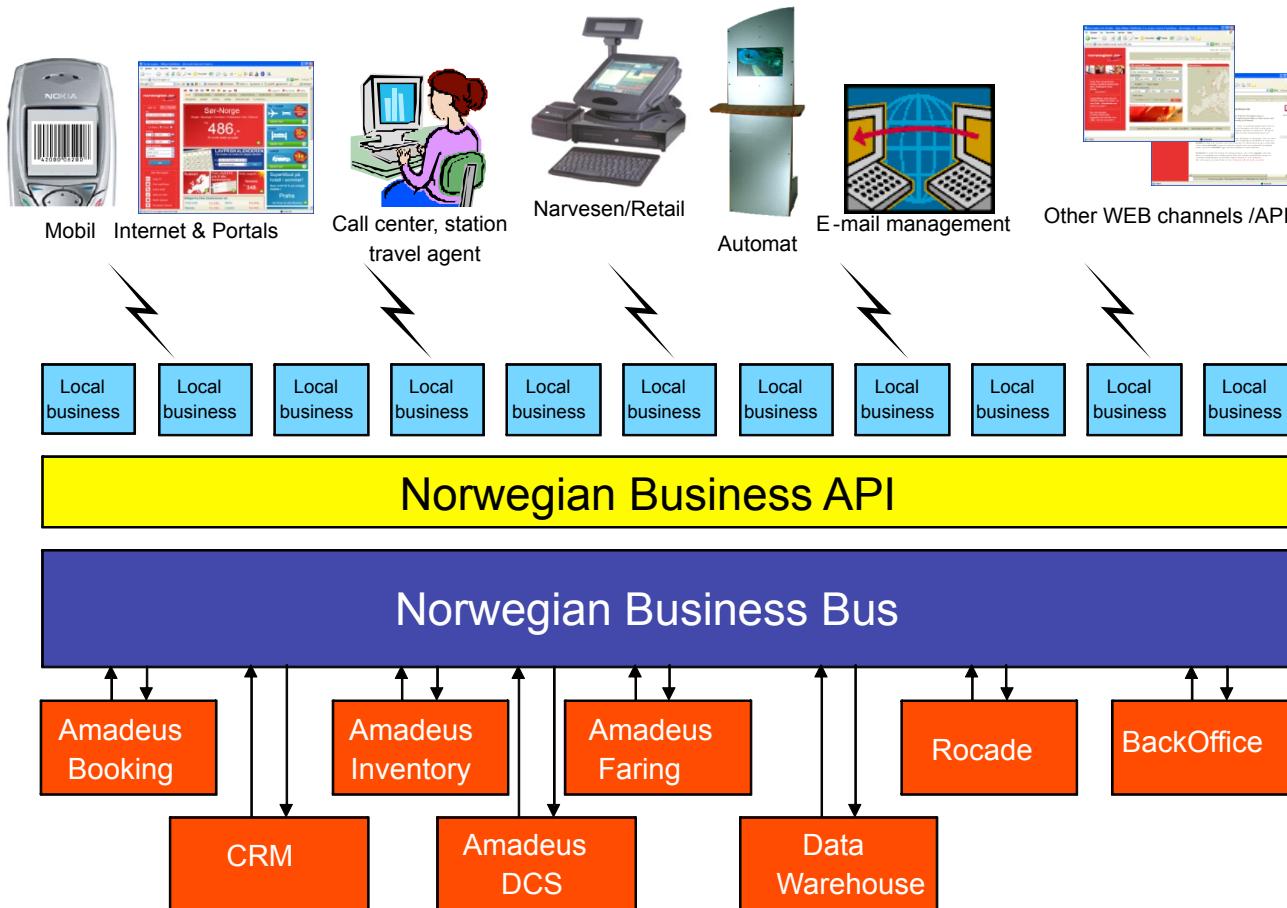
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Revenue (MNOK)	0.3	0.9	1.2	1.9	2.9	4,2	6,2	7,3	8.5	10.5	12.8	15.5	19.5	22,4
Load factor	52	62	67	78	79	80	78	78	77	79	78	78	80	86
Routes	5	18	43	54	86	114	170	206	249	271	308	391	402	447
Aircraft	7	8	12	14	22	32	40	46	57	62	68	85	95	99



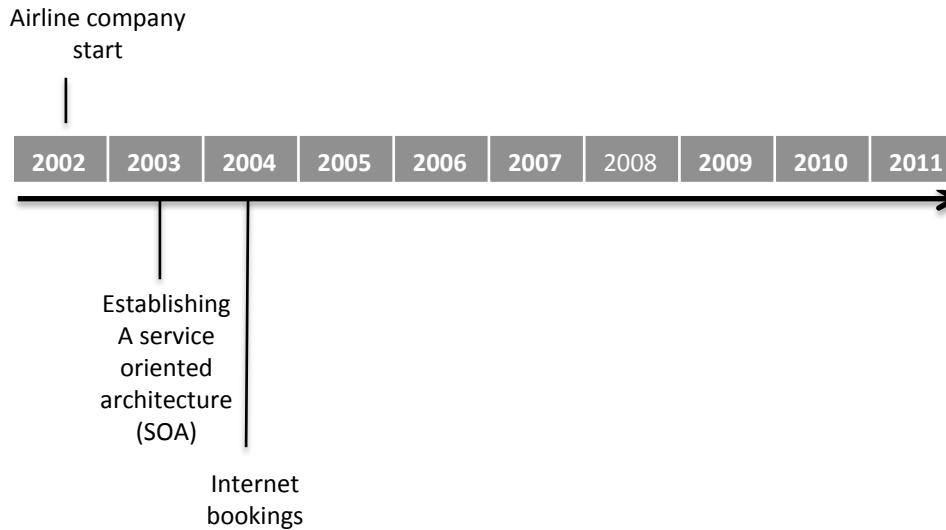
Norwegian timeline: SOA



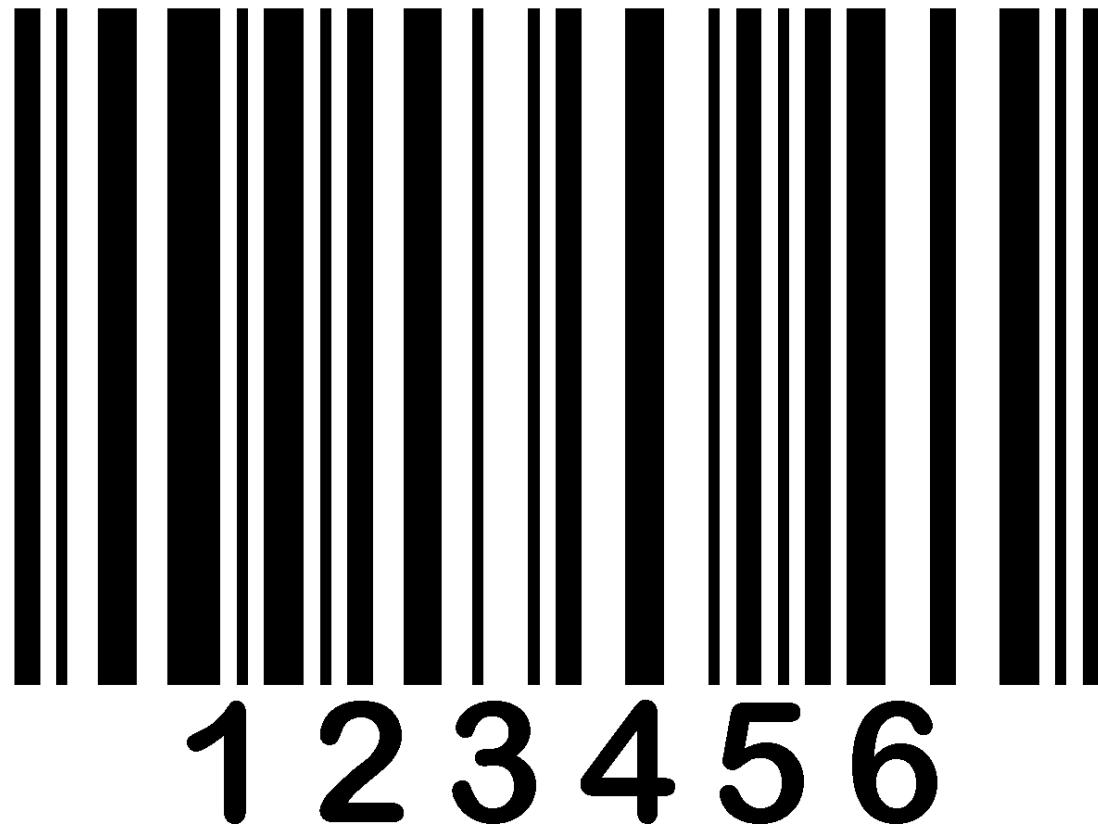
2002: IT architecture



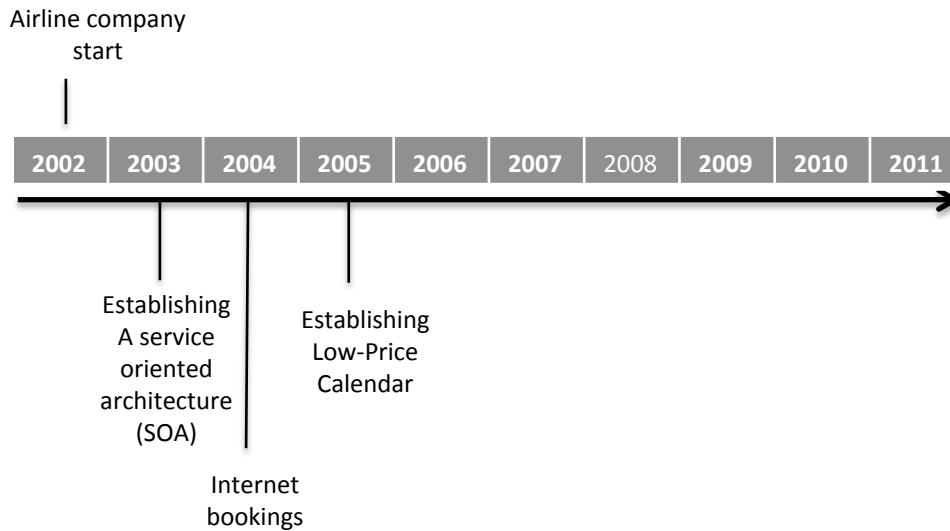
Norwegian: Internet bookings and tickets – bypassing travel agencies



2003: Bar code on tickets



Norwegian timeline



2005: Low Price Calendar

tips/

nyheter

norwegian.no

Bedrift Reisebyrå Grupper Førdeprogram Charter Mine reiser Logg inn Norsk ▾

Fly Hotell Leiebil Fly+Hotell Feriehus Reisemål Nyttig på reisen Kundeservice Om Norwegian

Alle destinasjoner - Billige flybilletter fra Oslo-Alle flyplasser

Velg pris for å gå til Lavpriskalenderen

Fra	Til	Direkte/Flybytte	Reiseperiode	Makspris	Valuta
Oslo-Alle flyplasser (OSLALL) ▾	<input checked="" type="radio"/> Alle dest... <input type="radio"/> Norge <input type="radio"/> Snø og ski <input type="radio"/> Sol og Bad <input type="radio"/> Storb	<input type="checkbox"/> Kun direkte	- Velg periode - ▾	- Vis alle - ▾	NOK ▾

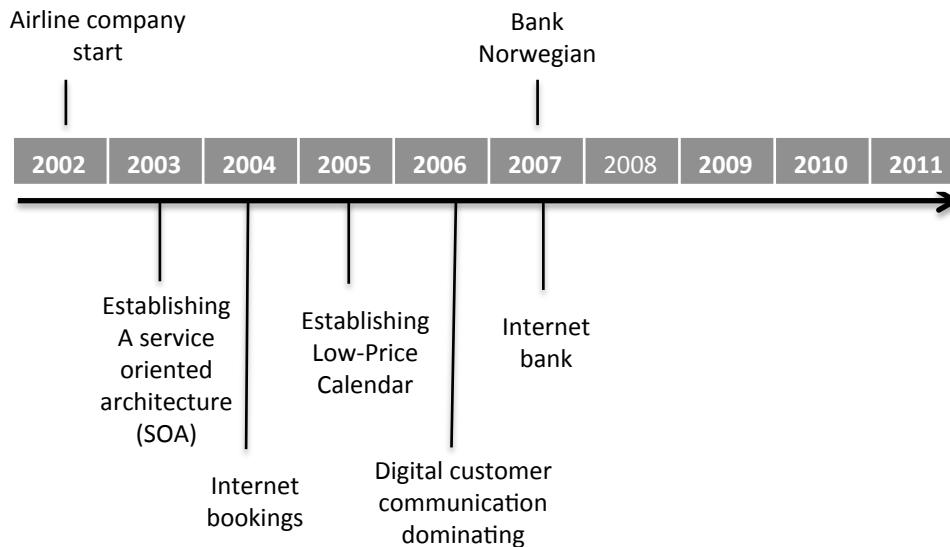
Nov Des Jan >>

	Fly til Agadir fra Oslo-Alle flyplasser Marokko	599	599	599
	Fly til Algarve-Faro fra Oslo-Alle flyplasser Portugal	399		
	Fly til Alicante fra Oslo-Alle flyplasser Spania	349	349	399
	Fly til Alta fra Oslo-Alle flyplasser Norge	399	399	399
	Fly til Amsterdam fra Oslo-Alle flyplasser Nederland	299	299	299
	Fly til Antalya fra Oslo-Alle flyplasser Tyrkia	399	399	699
	Fly til Barcelona fra Oslo-Alle flyplasser			

◀ Neste ⏪ Førige ⌂ Marker tekst ☰ Skift mellom store/små bokstaver

S W P

Norwegian timeline



2007: Bank Norwegian

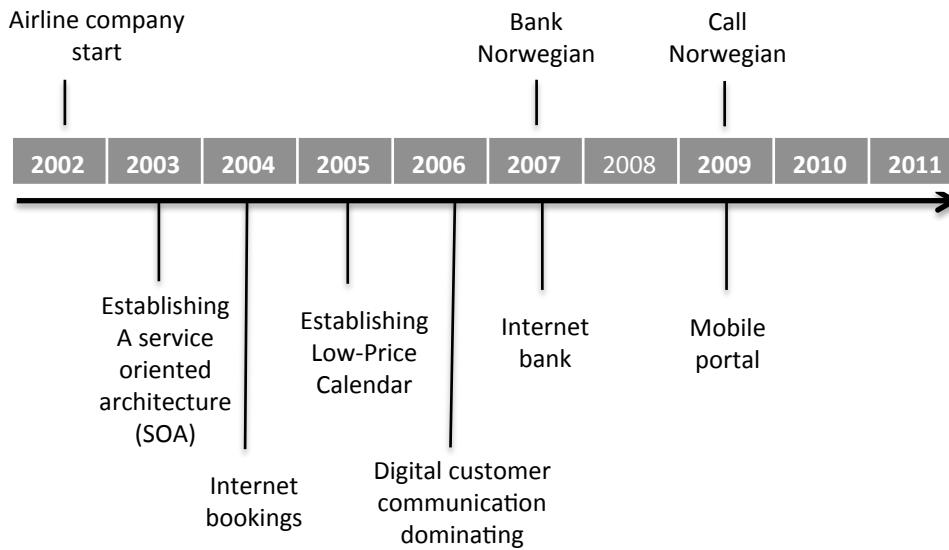


Internet bank

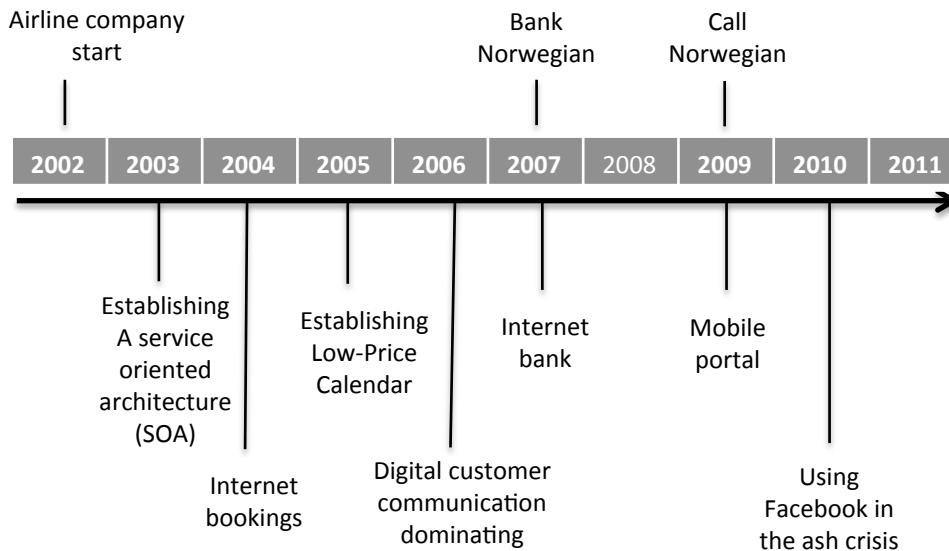
Handles Norwegian's FFP system
Profits 2015: 539 mill NOK

Stock exchange value (summer 2016):
- Norwegian: 10 BN NOK
- Bank Norwegian: 12 bn NOK

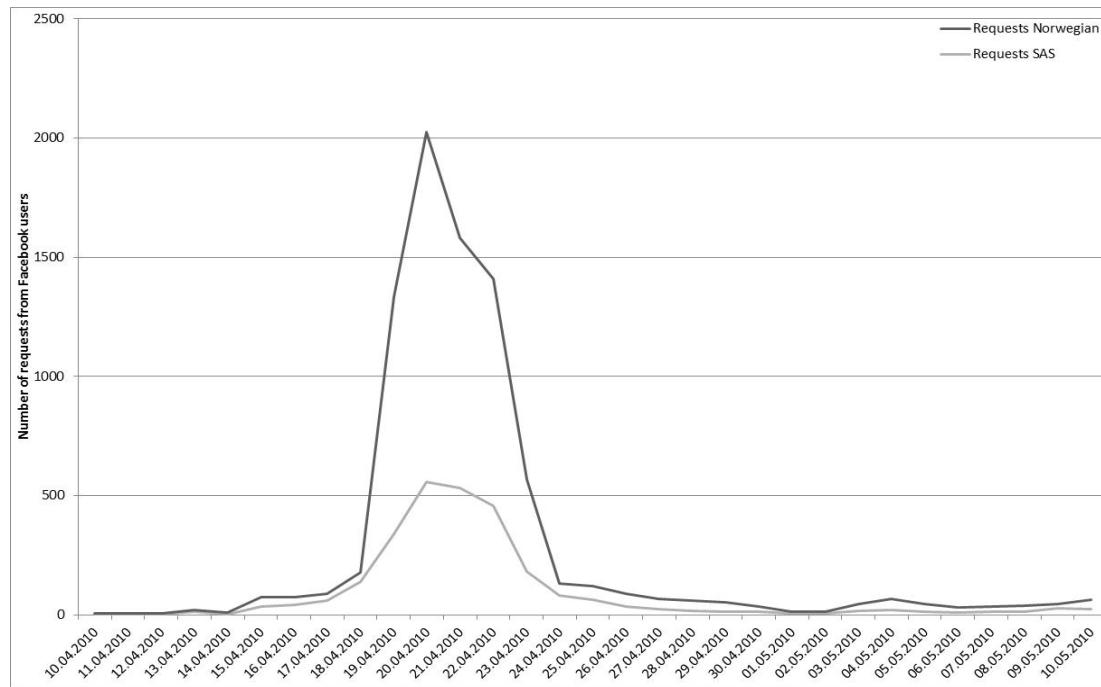
Norwegian timeline



Norwegian timeline

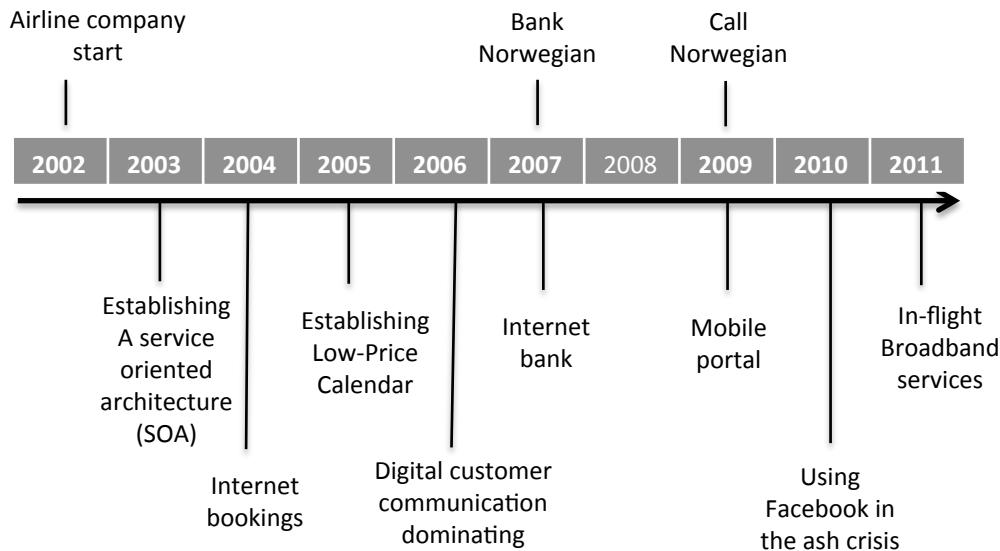


Ash crisis in 2010



Number of requests for SAS and Norwegian during the ash crisis

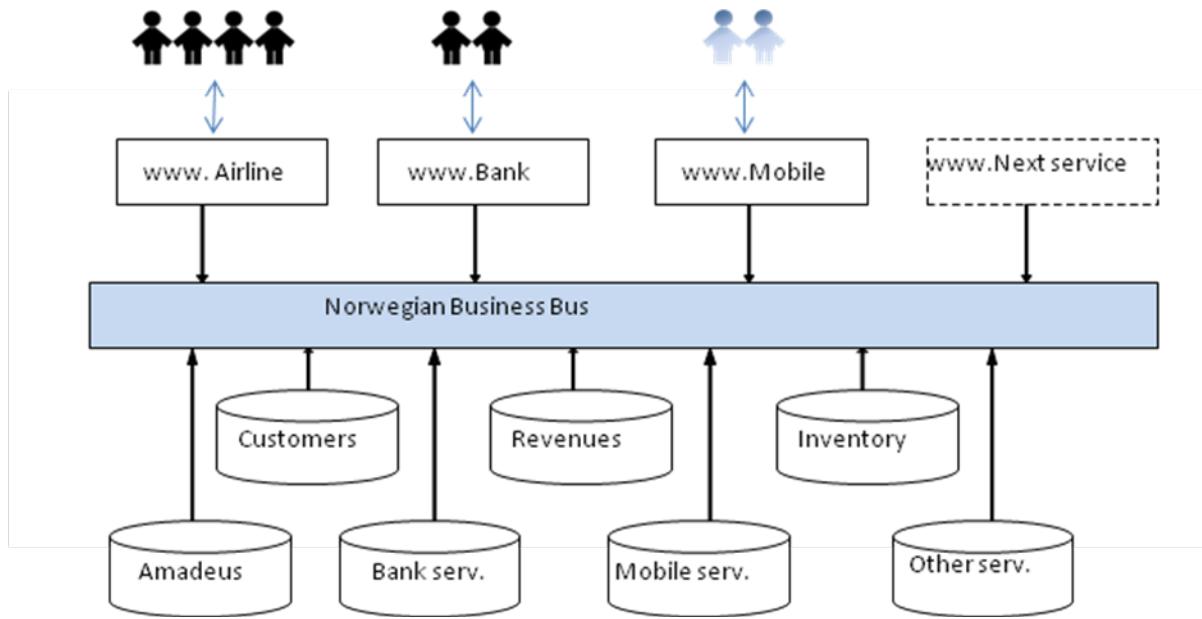
Norwegian timeline



Recent developments at Norwegian

- 2012: Largest airplane order in Europe (ever): Purchases 22 Boeing 737-800, 100 Boeing 737 MAX-8 og 100 Airbus A320neo.
- 2013: Start of long-haul operations to Thailand and USA with Boeing 787-8 Dreamliners. Established new bases outside Scandinavia.
- 2014: International expansion: More intercontinental routes.
“Best Low-Price Airline” in Europe.
- 2015-16: Conflicts with pilot and crew unions on employment contracts.

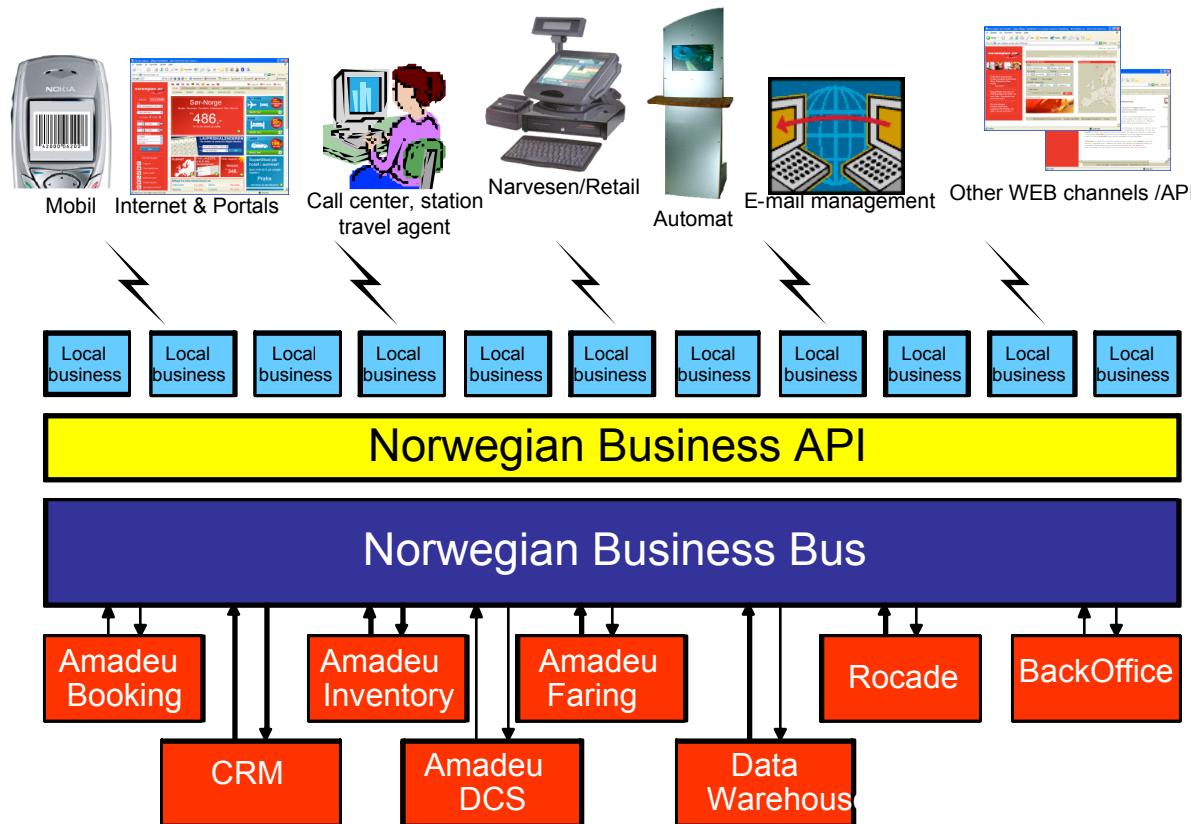
Innovation



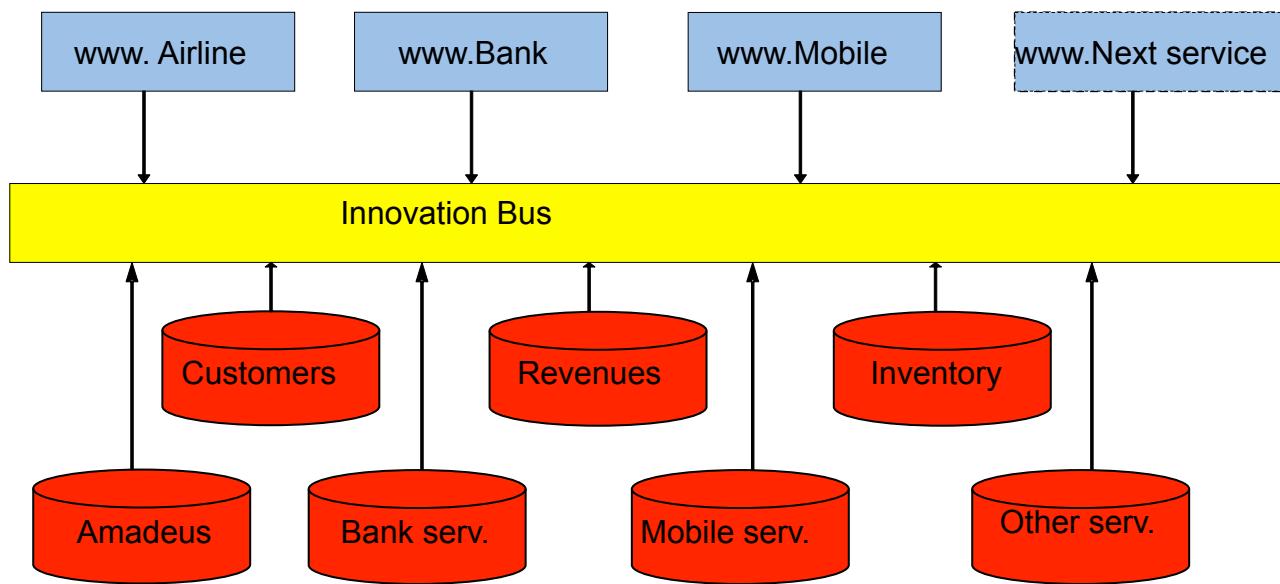
Case Analysis

Level	Description	Innovation aspect
Level 1: Technical infrastructure	A service bus architecture, based on an opensource bus with web service interfaces.	Enables the extension of new components at low cost, within a business unit.
Level 2: Service innovation infrastructure	An innovation mechanism, based on combinations of resources on the bus.	Enables the innovation of new business services.
Level 3: Organizational structure	A lean and flat organization structure, structured on business units.	Enables creative cooperation and fast decisions.

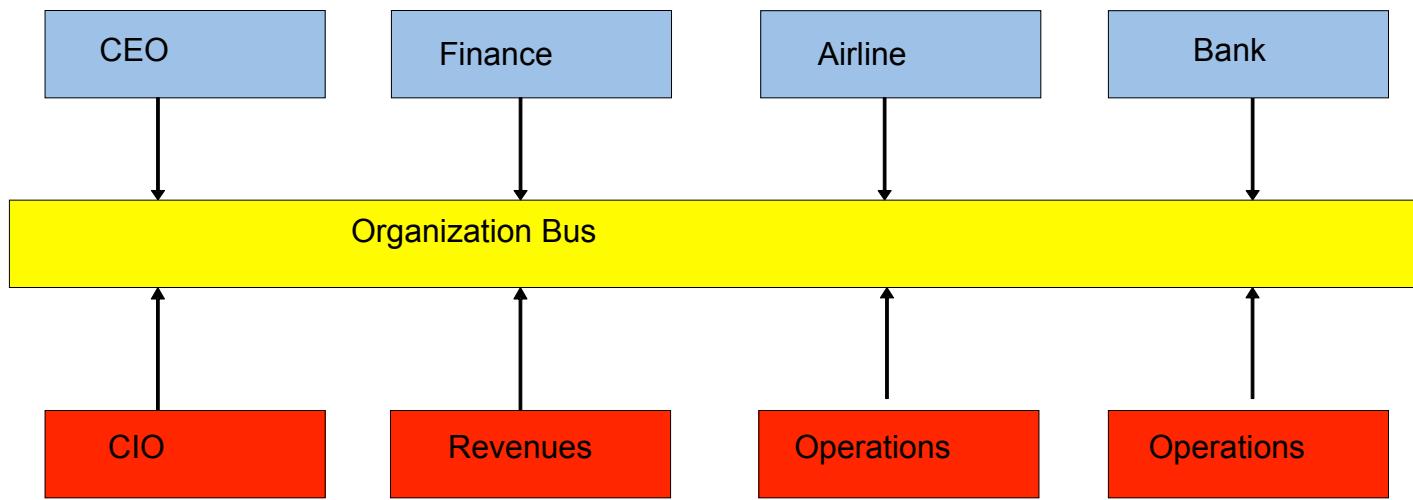
The Bus Architecture



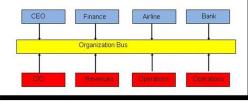
The Innovation Bus



The Organisation Bus

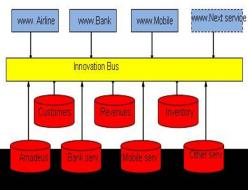


Conclusion: Three layers of innovation



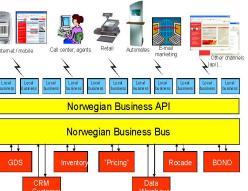
Level 3: The Bus as Organization Structure

- Benefits:
 - Supports an agile and innovative organization
 - Low costs
- Concerns:
 - May not be sustainable as organization grows into an international diversified company
 - Dependent on a culture of trust, vulnerable to power games



Level 2: The Bus as Service Innovation Infrastructure

- Benefits:
 - Enables innovation in horizontal expansion, with short time to market
 - Supports reuse of business components
- Concerns:
 - Synergies may be harder to harvest with further growth
 - Dependent on managers who understand the three level structure



Level 1: The Bus as Technical Infrastructure

- Benefits:
 - Supports a flexible systems architecture
 - Enables fast extensions of services at low cost
- Concern:
 - Increased technical complexity may threaten flexibility
 - Depending on key personnel with deep knowledge of architecture