

## Salmon supply and market outlook

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## Agenda

- Fundamental global demand drivers
- History says
- Main challenges for further growth
- Supply situation in the near future
- Summary

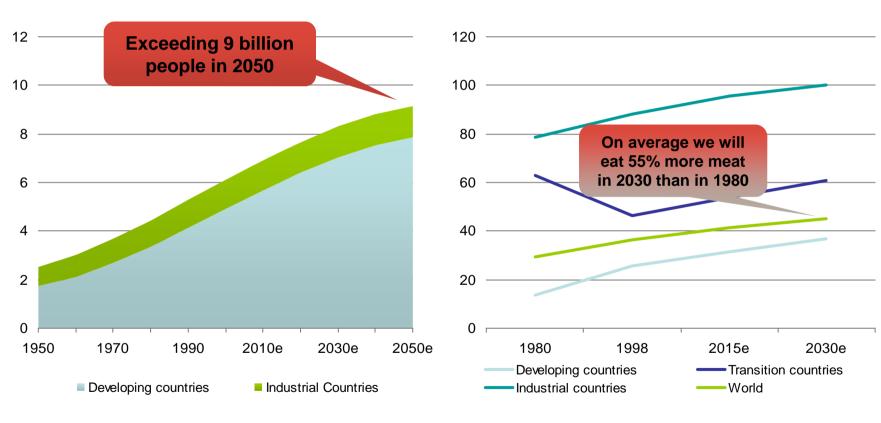


## Fundamental global demand drivers

# More people: World population growth In billions

## Everyone eating more protein: Growth in meat consumption

Kg per capita per year



Source: Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, World Population Prospects: The 2008 Revision, http://esa.un.org/unpp, Monday, October 05, 2009; 3:52:48 AM.

Source: FAO corporate document repository, http://www.fao.org/docrep/004/y3557e/y3557e16.htm#a4



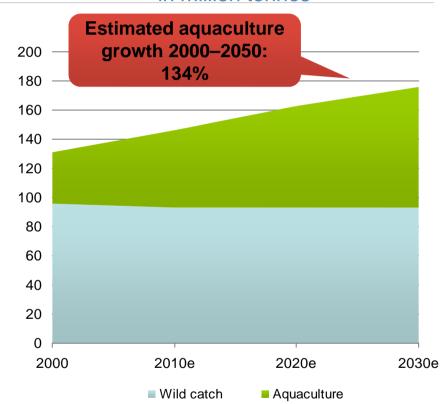
## And even stronger demand for seafood

#### **Total seafood production**

in million tonnes

"...dietary goals can be met by (...) ensuring a regular intake of fish (one to two times per week)."

**World Health Organisation** 

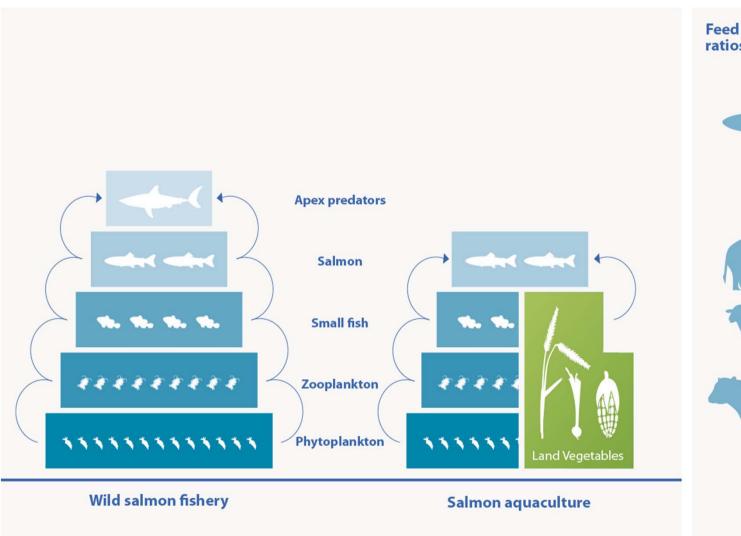


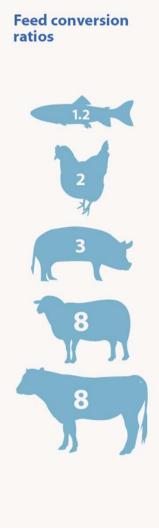
Source: http://www.who.int/nutrition/topics/5\_population\_nutrient/en/index12.html

Source: http://www.fao.org/docrep/009/A0699e/A0699E09.htm



#### Energy efficient compared to most protein sources







## A unique source of health





#### Available to "modern consumers"















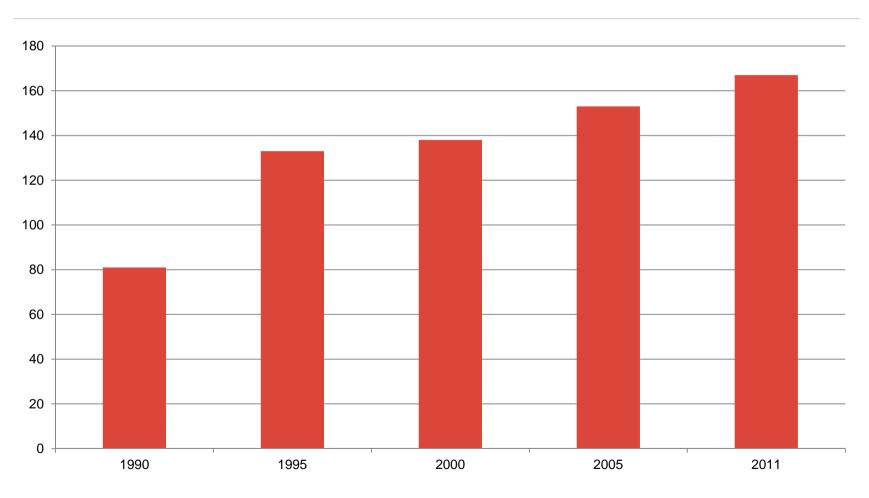






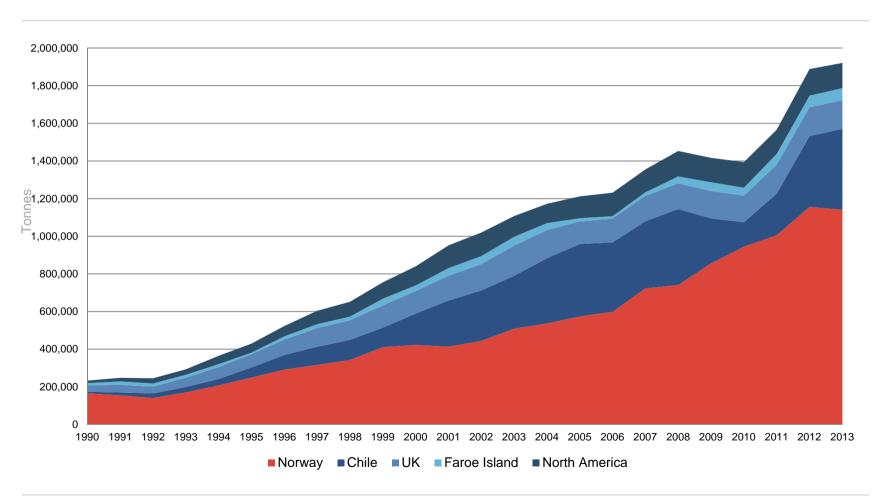


### Versatility: penetrating more and more markets



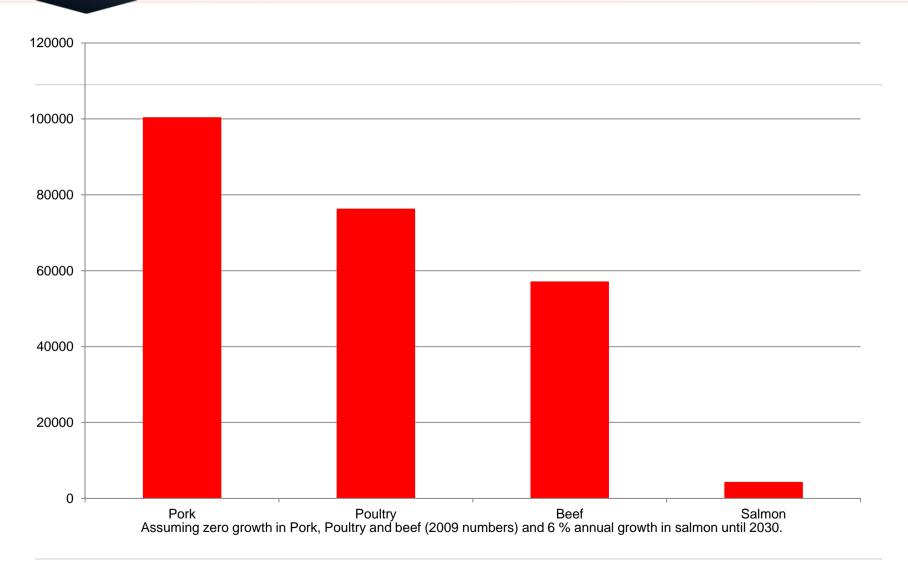


## Salmon – growth over time!





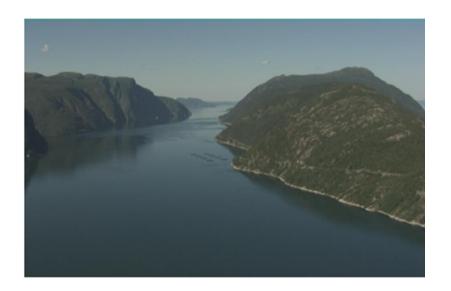
### There is room for more!





#### We have challenges to be adressed

- > Sea lice
- > Escapes
- > Medicine use
- > Survival rate and disease control
- > Use of marine resources
- Acceptance for alternative feed raw materials



Perceived or real- equally important, but solution is different



#### Global supply development

	Estimated vo	lumes	Compared to	Q4 2011	Estimated vol	umes	12 months comparison		
	Q4 2012	Q4 2011	Volume	%	2012	2011	Volume	%	
Suppliers									
Norway	304,200	285,400	18,800 1	6.6%	1,064,800	905,000	159,800	17.7%	
Chile	95,900	64,400	31,500	48.9%	327,400	198,900	128,500	<b>1</b> 64.6%	
Scotland	36,400	40,100	-3,700	-9.2%	141,700	139,200	2,500	1.8%	
North America	34,200	33,600	600 1	1.8%	128,800	115,500	13,300	11.5%	
Faroe Islands	18,200	16,300	1,900	11.7%	63,100	50,700	12,400	<b>1</b> 24.5%	
Australia	9,300	8,800	500 1	5.7%	32,900	32,400	500	1.5%	
Ireland	3,900	4,500	-600	-13.3%	14,000	14,400	-400	<b>-</b> 2.8%	
Other	3,000	1,600	1,400 1	87.5%	8,200	4,500	3,700	<b>1</b> 82.2%	
Sum	507,000	454,700	52,300	11.5%	1,782,800	1,460,600	320,300	<b>1</b> 22.1%	

Source: Kontali

- Materially lower growth from Norway compared to previous quarters
- Continued strong growth from Chile
- Minor movement in the remaining regions totalling zero growth

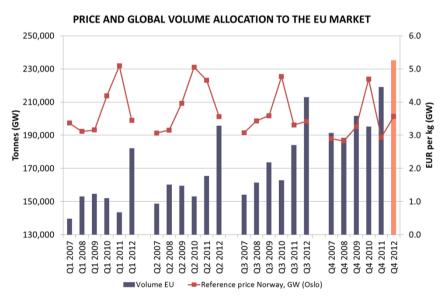


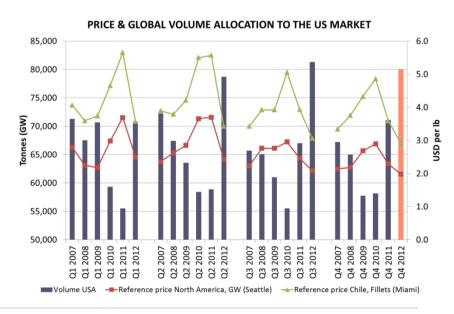
#### Development in reference prices

Reference prices	Q4 2012	Change vs	Q4 2012	Change vs
	NOK	Q4 2011	Market (4)	Q4 2011
Norway (1)	NOK 26.28	15.4%	EUR 3.57	21.6%
Chile (2)	NOK 16.55	-20.0%	USD 2.91	-19.0%
North America (3)	NOK 11.26	-14.7%	USD 1.98	-13.6%

#### Notes:

- (1) Average superior HOG price per kg (NOS/FHL FCA Oslo)
- (2) Average C trim price per lb (Urner Barry Miami 2-3 lb)
- (3) Average superior HOG price per lb (Urner Barry Seattle 10-12 lb)
- (4) Market price in local currency







#### Global volume by market

	Estimated vol	lumes	Compared to Q	4 2011	Estimated vol	umes	12 months com	parsion
	Q4 2012	Q4 2011	Volume	%	2012	2011	Volume	%
Markets		_						
EU	234,800	215,600	19,200 👚	8.9%	824,100	704,100	120,000 1	17.0%
USA	77,500	71,600	5,900 1	8.2%	308,300	259,600	48,700 1	18.8%
Russia	48,900	43,400	5,500 1	12.7%	155,100	114,300	40,800 1	35.7%
Japan	13,700	15,000	-1,300 👢	-8.7%	56,800	41,000	15,800 1	38.5%
Brasil	20,800	12,800	8,000 1	62.5%	64,800	38,700	26,100 1	67.4%
China / Hong Kong	15,800	13,400	2,400 1	17.9%	56,100	45,500	10,600 1	23.3%
South Korea/Taiwan	10,000	8,000	2,000 1	25.0%	34,300	27,000	7,300 1	27.0%
Ukraina	9,300	6,900	2,400	34.8%	26,200	18,700	7,500	40.1%
Sum main markets	430,700	386,800	43,900	11.3%	1,525,700	1,248,800	276,800 1	22.2%
Other markets	75,800	64,500	11,300 👚	17.5%	250,400	209,300	41,100 1	19.6%
Total all markets	506,400	451,400	55,000 1	12.2%	1,776,100	1,458,200	317,900 1	21.8%
Inflow to US from Europe	15,800	22,000	-6,200	-28.2%	67,000	86,200	-19,200	-22.3%
Inflow to EU from Chile	8,500	4,100	4,400 1	107.3%	24,300	15,500	8,800 1	56.8%
- Strong in		in Eur	one of oig	nificar	athy bighe	or price	Sour	ce: Kontali

- Strong increase in Europe at significantly higher prices
- Limited stimulation of US end demand despite very low prices
- Strong growth in most other markets
- Still limited shipments from Chile to Europe



#### Industry supply outlook Q1 and 2013

	2008	2009	2010	2011	2012	Estimates 2013			
HOG tonnes (thou	sands)					Low Y/	Y growth	High	Y/Y growth
Norway	667	770	850	905	1065	998	-6%	1,029	-3%
Chile	363	215	117	199	328	420	28%	445	36%
North America	122	119	122	116	129	113	-12%	118	-8%
UK	123	130	128	139	141	126	-11%	132	-7%
Other	69	86	85	99	120	108	-10%	112	-7%
Total	1,344	1,320	1,301	1,458	1,783	1,765	-1%	1,836	3%

	Q1 2008	Q1 2009	Q1 2010	Q1 2011	Q1 2012	Е	STIMATES	Q1 2013	
<b>HOG</b> tonnes (tho	usands)				-	Low Q/0	growth	High Q/0	growth
Norway	155	163	196	190	242	225	-7%	230	-5%
Chile	80	92	30	33	67	100	50%	110	64%
North America	29	29	30	25	31	25	-19%	27	-13%
UK	29	27	31	30	33	23	-30%	25	-23%
Other	14	20	18	22	30	28	-7%	32	6%
Total	307	331	305	300	403	401	0%	424	5%

- 2013 volumes for Chile increased by 30 thousand tonnes from Q3 presentation
- Blended picture for 2013
  - 4%-7% drop Norwegian/Scottish output
  - 14%-19% increase in Chilean/North American output



#### MHG – 2013 volume guidance

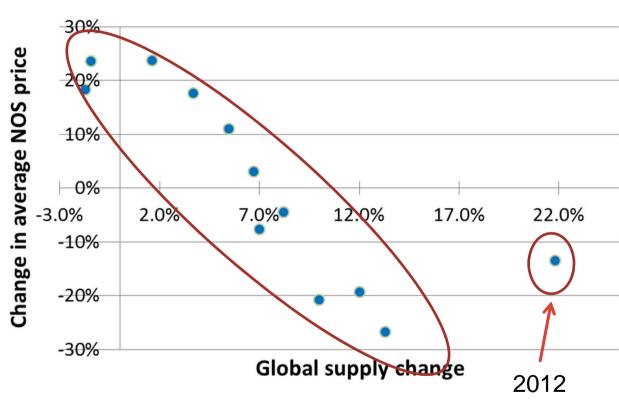
Salmon species	Q1 2012	Q2 2012	Q3 2012	Q4 2012	2012	Q1 2013	Q2-Q4 2013	2013
HOG tons (1000)	Actual	Actual	Actual	Actual	Actual	Estimate	Estimate	Estimate
Norway	63	64	58	70	255	45	185	230
Growth %	30%	18%	23%	4%	17%	-28%	-4%	-10%
Chile (1)	10	10	10	11	40	8	26	34
Growth %	255%	728%	-11%	0%	55%	-18%	-15%	-15%
Canada	11	11	8	11	40	12	20	32
Growth %	12%	36%	4%	23%	19%	13%	-32%	-20%
Scotland	9	11	13	7	40	8	34	42
Growth %	-11%	-13%	-8%	-47%	-20%	-13%	9%	4%
Other Units	4	4	4	5	16	2	10	12
Growth %	4%	-8%	48%	0%	7%	-54%	-16%	-26%
Total	97	99	93	103	392	75	275	350
Growth %	29%	24%	12%	-1%	14%	-22%	-7%	-11%

- 80% of volume originating in Europe at low contract coverage
- 2013 harvest volumes temporarily reduced due to:
  - Cash flow measures taken in 2011/2012
  - AGD issues in Scotland and Ireland



#### Historic Volume - Price Relationship

Y-o-Y	Global supply growth	Change in av. price FCA Oslo
2000-01	13.3%	-27%
2001-02	7.0%	-8%
2002-03	8.2%	-4%
2003-04	5.5%	11%
2004-05	3.7%	18%
2005-06	1.6%	24%
2006-07	10.0%	-21%
2007-08	6.7%	3%
2008-09	-1.7%	18%
2009-10	-1.4%	24%
2010-11	12.0%	-19%
2011-12	21.8%	-13%



Source: Kontali



#### SUMMARY

- The global demand drivers calls for growth
- Salmon as protein, healthy tasty and energy efficient
- There are challenges to be solved
- Predictable regulatory environment needed
- Short term the supply in Europe can be to low for sustainable development!

