

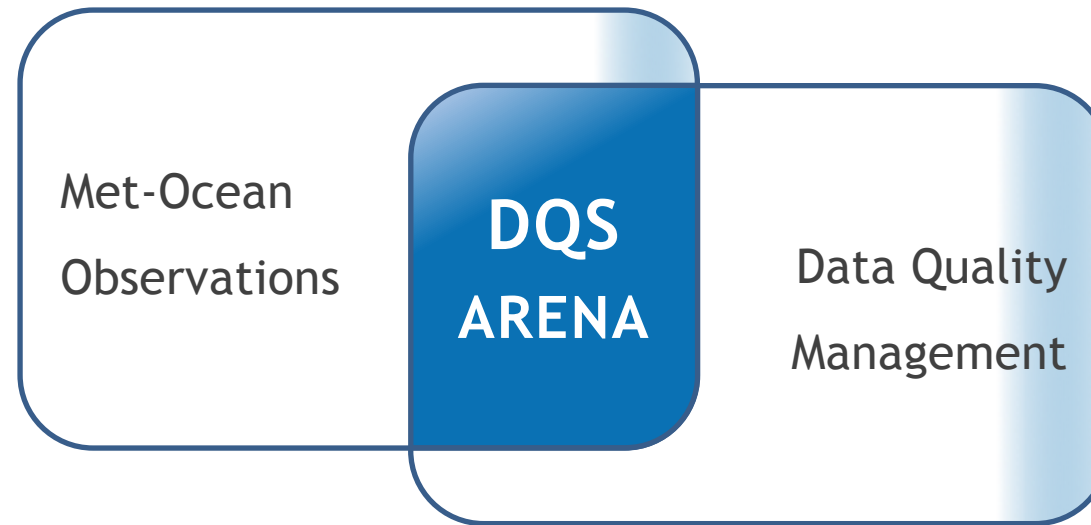


”Making Met-Ocean Data Useful”

Ocean Cluster Faroes 2021

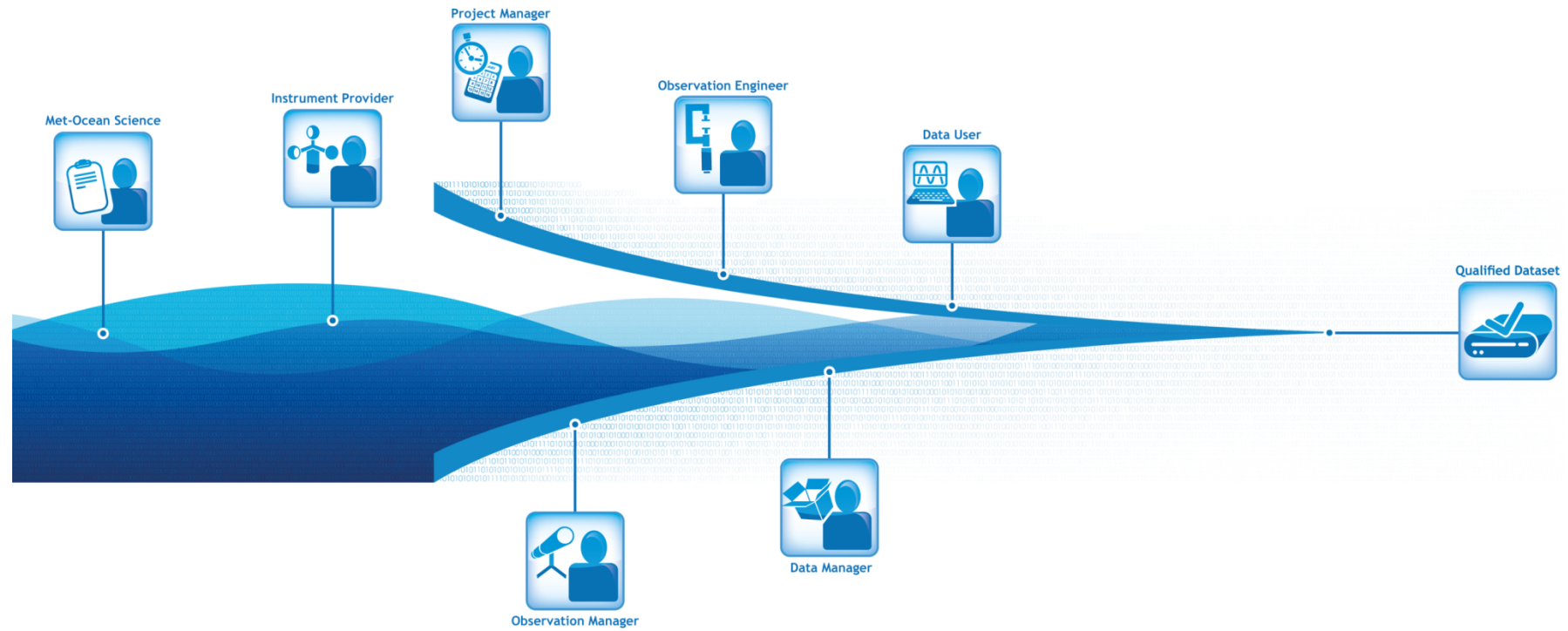
1st December 2021

Signar P. Heinesen

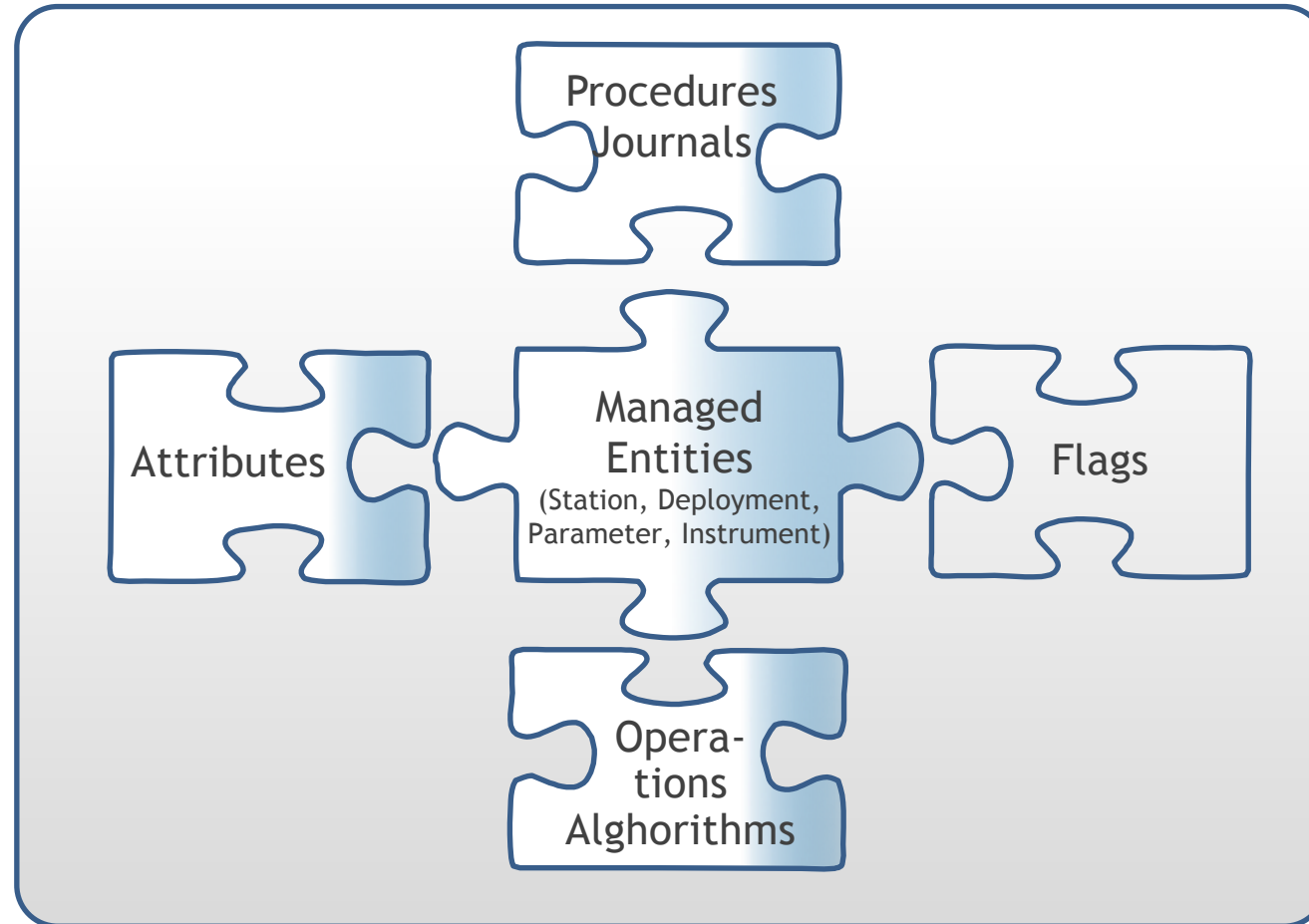


- DQS integrates Data Quality management as a natural part of the digitized Met-Ocean observation environment

DQ Framework - User Roles



DQ Framework - Knowledge Representation



Data góðska - dimensiónir



- Data Specification
- Data Integrity Fundamentals
- Perception, Relevance, Trust
- Accuracy
- Data Coverage
- Transactability



Data frá fiskiförum - nokur góðskumát

- Datanögd - í tíð og rúmi
- Data verða brúkt, meðan tey verða mátað
- Data frá ymiskum skipum síggjast á somu brúksmynd



Data frá fiskiförum - nakrar avbjóðingar

- Vit vita ekki heilt neyvt, hvat verður mátað
- Veik ella eingin instrument-søga
- Veik ella eingin uppsetingar-søga
- Veik ella eingin kalibrering
- Veik eftirmeting og data rudding (Quality Control)



Data frá fiskiförum

- Hitamátingar í ymiskum dýpum

Jan-nov 2021

Sjóvarmálshiti
60%
4.504.087

Frequency Table Counts
Period : 01/01-2021 to 22/11-2021
Sea Temp : Temperature:Temperature
Bins : Depth Bin Upper Value [m]

	<-1	-1-	0	0-	1	2	3	4	5	6	7	8	9	10-12	12-14	14-16	>16	Sum	0/00
0000	78434	92951	136405	146296	105099	169734	226465	282609	268037	313486	521577	632065	1173488	339106	17868	467	4504087	59	
0010	0	0	2	34	9	12	53	115	203	267	1209	1698	1342	630	307	121	6002	1	
0020	0	0	2	43	20	3	18	98	301	589	2266	2468	1963	706	41	96	8614	1	
0030	6337	15197	12765	8185	2560	2373	8732	8579	5731	10041	23838	25809	34642	5122	1381	1901	173193	23	
0050	4588	18442	4760	5202	3094	2155	9181	6704	5344	9716	11273	5265	7139	454	1620	2568	97505	13	
0075	4451	11760	8846	7717	6644	7584	16670	18757	13295	12852	19646	13077	4729	2330	2753	6078	157189	21	
0100	1305	3732	4248	8918	5768	3467	4632	4976	6789	17010	25978	21089	6610	1289	2325	4490	122626	16	
0125	1458	2166	2243	9146	11585	4137	3826	3546	6346	14317	9141	4995	3134	1160	2223	3219	82642	11	
0150	969	497	3100	14468	26897	41524	28472	4822	11764	19049	29765	17709	2053	1223	2674	4590	209576	28	
0200	1310	463	9434	30109	65485	81363	100017	10489	44670	62914	98553	31923	2269	1901	3005	6181	550086	72	
0250	7858	12945	28038	21546	33085	56801	66426	16038	15695	38486	38956	9313	2615	1455	3661	7317	360235	47	
0300	1142	20114	7397	13423	48374	57718	94485	50062	26236	29684	19968	8506	3869	5748	6975	8485	402186	53	
0400	1265	505	5350	9827	10513	15548	18817	13811	7485	9477	31753	13474	10360	5208	10370	13236	176999	23	
0500	746	1021	2456	10165	2822	4420	3054	3675	2010	3829	84869	10951	8868	3539	7869	12861	163155	21	
0600	6577	416	23665	22848	1988	26644	1329	1437	1438	3572	47938	2963	3262	2986	6883	10466	164412	22	
0700	638	109	20358	5070	613	6727	1066	1476	624	2616	3157	1425	2200	1153	4730	5937	57899	8	
0800	344	1566	9077	25221	3535	5930	1283	1290	919	923	1185	1651	2161	2834	4126	5307	67352	9	
0900	2737	514	14480	22499	1468	4611	3331	1215	642	799	1032	1183	2425	2299	3811	4839	67885	9	
1000	984	196	24798	12831	610	7989	1853	465	1201	1255	1196	2123	2357	1165	2931	5023	66977	9	
1100	185	181	13027	2770	334	7251	1558	375	341	652	933	979	1292	1158	3313	4489	38838	5	
1200	83	67	5408	506	1027	8243	1030	292	350	382	1173	646	1380	1921	2737	3243	28488	4	
1300	97	106	376	226	3409	11799	275	230	230	338	493	662	2402	736	2807	5043	29229	4	
1400	137	78	29	115	404	768	182	231	279	308	601	586	1244	738	2648	4161	12509	2	
1500	532	63	193	135	349	376	379	426	505	832	1655	1568	2134	1779	3967	7167	22060	3	
1750	203	46	175	186	332	393	443	562	550	1379	1509	1809	3190	2153	5114	10649	28693	4	
2000	479	208	102	653	199	291	435	444	574	1235	1783	1879	2450	1443	3238	5728	21141	3	
Sum	122859	183343	336734	378139	336224	527862	594015	432725	421560	556010	981448	815819	1289580	390236	109385	143697	7619636		
0/00	16	24	44	50	44	69	78	57	55	73	129	107	169	51	14	19	1000	1000	

7.619.636



Data frá fiskiförum

- Hitamátingar í ymiskum dýpum

Frequency Table Weighted Percentage with Control Sectors
 Period : 01/01-2021 to 22/11-2021
 Sea Temp : Temperature:Temperature
 Bins : Depth Bin Upper Value [m]

	<-1	-1- 0	0- 1	1- 2	2- 3	3- 4	4- 5	5- 6	6- 7	7- 8	8- 9	9-10	10-12	12-14	14-16	>16	Sum	0/00
0000	1.03	1.22	1.79	1.92	1.38	2.23	2.97	3.71	3.52	4.11	6.85	8.30	15.40	4.45	0.23	0.01	4504087	591
0010	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.01	0.00	0.00	6002	1
0020	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.03	0.01	0.00	0.00	8614	1
0030	0.08	0.20	0.17	0.11	0.03	0.03	0.11	0.11	0.08	0.13	0.31	0.34	0.45	0.07	0.02	0.02	173193	23
0050	0.06	0.24	0.06	0.07	0.04	0.03	0.12	0.09	0.07	0.13	0.15	0.07	0.09	0.01	0.02	0.03	97505	13
0075	0.06	0.15	0.12	0.10	0.09	0.10	0.22	0.25	0.17	0.17	0.26	0.17	0.06	0.03	0.04	0.08	157189	21
0100	0.02	0.05	0.06	0.12	0.08	0.05	0.06	0.07	0.09	0.22	0.34	0.28	0.09	0.02	0.03	0.06	122626	16
0125	0.02	0.03	0.03	0.12	0.15	0.05	0.05	0.05	0.08	0.19	0.12	0.07	0.04	0.02	0.03	0.04	82642	11
0150	0.01	0.01	0.04	0.19	0.35	0.54	0.37	0.06	0.15	0.25	0.39	0.23	0.03	0.02	0.04	0.06	209576	28
0200	0.02	0.01	0.12	0.40	0.86	1.07	1.31	0.14	0.59	0.83	1.29	0.42	0.03	0.02	0.04	0.08	550086	72
0250	0.10	0.17	0.37	0.28	0.43	0.75	0.87	0.21	0.21	0.51	0.51	0.12	0.03	0.02	0.05	0.10	360235	47
0300	0.01	0.26	0.10	0.18	0.63	0.76	1.24	0.66	0.34	0.39	0.26	0.11	0.05	0.08	0.09	0.11	402186	53
0400	0.02	0.01	0.07	0.13	0.14	0.20	0.25	0.18	0.10	0.12	0.42	0.18	0.14	0.07	0.14	0.17	176999	23
0500	0.01	0.01	0.03	0.13	0.04	0.06	0.04	0.05	0.03	0.05	1.11	0.14	0.12	0.05	0.10	0.17	163155	21
0600	0.09	0.01	0.31	0.30	0.03	0.35	0.02	0.02	0.02	0.05	0.63	0.04	0.04	0.04	0.09	0.14	164412	22
0700	0.01	0.00	0.27	0.07	0.01	0.09	0.01	0.02	0.01	0.03	0.04	0.02	0.03	0.02	0.06	0.08	57899	8
0800	0.00	0.02	0.12	0.33	0.05	0.08	0.02	0.02	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.07	67352	9
0900	0.04	0.01	0.19	0.30	0.02	0.06	0.04	0.02	0.01	0.01	0.01	0.02	0.03	0.03	0.05	0.06	67885	9
1000	0.01	0.00	0.33	0.17	0.01	0.10	0.02	0.01	0.02	0.02	0.02	0.03	0.03	0.02	0.04	0.07	66977	9
1100	0.00	0.00	0.17	0.04	0.00	0.10	0.02	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.04	0.06	38838	5
1200	0.00	0.00	0.07	0.01	0.01	0.11	0.01	0.00	0.00	0.01	0.02	0.01	0.02	0.03	0.04	0.04	28488	4
1300	0.00	0.00	0.00	0.00	0.04	0.15	0.00	0.00	0.00	0.00	0.01	0.01	0.03	0.01	0.04	0.07	29229	4
1400	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.03	0.05	12509	2
1500	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.03	0.02	0.05	0.09	22060	3
1750	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.04	0.03	0.07	0.14	28693	4
2000	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.04	0.08	21141	3
Sum	122859	183343	336734	378139	336224	527862	594015	432725	421560	556010	981448	815819	1289580	390236	109385	143697	7619636	
0/00	16	24	44	50	44	69	78	57	55	73	129	107	169	51	14	19	1000	1000

8-12C
40%
3.086.847

150-400m
1.521.083



Data frá fiskiförum - Hitamátingar mánaðirnar 2021

apríl
515.838

august
1.096.669

Monthly Stat Heading1 (1 - Temperature)
Monthly Statistics
Count Values

MeastId	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Count	Err %
0000	376252	336853	230640	288850	395971	289989	448522	682922	554882	517738	381468		0'4504087	86
0010	360'	191'	177'	198'	149'	1773'	1319'	767'	330'	310'	428'		0' 6002	100
0020	295'	221'	164'	254'	206'	3197'	1983'	1118'	546'	479'	151'		0' 8614	100
0030	11382'	4283'	3516'	4553'	3833'	21616'	25616'	42255	28125	15229'	12785'		0' 173193	99
0050	7295'	5722'	3546'	3711'	4379'	14336'	6586'	16648'	12341'	16686'	6255'		0' 97505	100
0075	14832'	11164'	8837'	9234'	6205'	7722'	17174'	26168'	14570'	21550'	19733'		0' 157189	100
0100	6819'	5117'	4271'	4124'	10056'	16290'	19298'	23467'	11568'	11485'	10131'		0' 122626	100
0125	8173'	8991'	4845'	4986'	7647'	9333'	6721'	15044'	5879'	6162'	4861'		0' 82642	100
0150	25664'	23398'	15022'	5814'	6837'	3136'	23384'	52800	20227'	26279'	7015'		0' 209576	99
0200	78241	71190	49437	14182'	18238'	4707'	45427	80833	41028	96937	49866		0' 550086	98
0250	86572	20947'	33467	36873	38850	4167'	15949'	16056'	32494	32674	42186		0' 360235	99
0300	103141	63367	54834	50574	43674	7794'	12800'	9558'	27192	13993'	15259'		0' 402186	99
0400	19329'	11440'	26205'	34553	21182'	7910'	14117'	10348'	8712'	13285'	9918'		0' 176999	99
0500	12721'	3191'	10411'	23067'	29023	19998'	22103'	9057'	13124'	12408'	8052'		0' 163155	99
0600	2500'	7102'	7939'	18257'	19469'	27323	10303'	29248	17308'	16499'	8464'		0' 164412	99
0700	4877'	1531'	727'	2995'	3372'	3300'	2267'	12357'	8165'	8597'	9711'		0' 57899	100
0800	4837'	1950'	2158'	1169'	1206'	1865'	2299'	8447'	17985'	18416'	7020'		0' 67352	100
0900	2124'	1210'	794'	4445'	1730'	1739'	2141'	20145'	11500'	11975'	10082'		0' 67885	100
1000	1313'	987'	478'	1604'	1953'	2918'	2769'	12521'	12604'	17232'	12598'		0' 66977	100
1100	850'	575'	461'	839'	1505'	2047'	2213'	3407'	5125'	10347'	11469'		0' 38838	100
1200	370'	888'	53'	607'	1353'	6526'	3283'	2122'	3954'	4224'	5108'		0' 28488	100
1300	289'	234'	81'	451'	1265'	9973'	4561'	1729'	5327'	3359'	1960'		0' 29229	100
1400	793'	740'	325'	406'	1023'	1955'	1545'	1251'	2027'	1499'	945'		0' 12509	100
1500	1278'	418'	224'	1238'	2068'	3260'	3120'	4083'	3059'	2175'	1137'		0' 22060	100
1750	474'	474'	251'	1452'	2975'	4054'	3413'	4746'	4067'	3446'	3341'		0' 28693	100
2000	611'	207'	36'	1402'	2303'	2769'	3306'	3572'	3137'	1938'	1860'		0' 21141	100
9000	20'	35'	1'	0'	0'	1'	1'	0'	0'	0'	0'		0' 58	100
Count	771412	582426	458900	515838	626472	479698	702220	1090669	865276	884922	641803		0 7619636	91
Err%	92	91	95	93	90	93	89	84	86	88	91	nan	nan	
Count Min	20	35	1	198	149	1	1	767	330	310	151	nan	0	
Count Max	376252	336853	230640	288850	395971	289989	448522	682922	554882	517738	381468	nan	1090669	
Count StdDev	157397.9	146228.8	99106.1	129823.6	179155.5	135120.2	205513.6	312899.3	256105.0	237277.8	176185.7	nan	nan	

Data frá fiskiførum

- Hvussu fáa vit størri brúksnyttu?

- Heima í Føroyum
 - Eina gjøgnumgongd av øllum datasettinum
 - Sammeta við aðrar mátingar
 - Framhaldandi at menna brúksamboðini á brúnni
 - Seta í verk eina góðskuskipan
- Altjóða samstarv
 - Mátiútgerð
 - Mátihættir/uppsetingar
 - Góðskumát (algoritmur)
 - Standardir
 - Greiningar og úrslit



Data frá fiskiførum - Føroyar í einum altjóða høpi

Grundað á royndirnar og úrslitini higartil
á ymiskum virkisøkjum:

Føroyar

hava møguleika at leggja seg í oddin

á júst hesum økinum

vinnuliga

og í granskingarhøpi

Relation Building is a Key to Quality

