

3. Achievements under National Eco-Security System Pakistan <https://dairysciencepark.org/ness/>

By March 14, 2024, the “promise” progress is shown on Figure 1.

Figure 2. Summary of engagement of Pakistani Institutions with NESS

Total Institutions: 314	Promised Institutions: 54 (17.20%)	Promised individuals: 44 (14.01%)	Promised not yet 216 (68.79%)
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Promise Organisations

The following list includes **all Higher Education Institutions and Research Institutions** in Pakistan, as well as some other organisations. Different colours in the “Status” column indicate different states of “making promise” by scientific community of Pakistan:



Dark blue represents the institution that has made a promise in the name of the institution; light blue indicates a promise made by experts within the institution; gray indicates that no promise has been made yet.

The organisations in colour are listed in chronological order of making a promise, while the grey organisations are ranked according to the “Ranking Web of Universities” at <https://www.webometrics.info/en>.

I. Higher Education Institutions: total 202, in which 33 made a promise by organisation, and 0 made by individuals.

II. Research Institutes: total 68, in which 0 made a promise by organisation, and 1 made by individuals.

III. Other organisations: Out of 63 organisations 16 made a promise by organisations and 18 by individuals.

IV. Organisations outside of Pakistan: 5 organisations made a promise by organisation and 12 by individuals.

Figure 3. Statement of institutions engaged for NESS-Pakistan

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

<u>101</u>	<u>102</u>	<u>103</u>	<u>104</u>	<u>105</u>	<u>106</u>	<u>107</u>	<u>108</u>	<u>109</u>	<u>110</u>
111	112	113	114	115	116	117	118	119	120
<u>121</u>	<u>122</u>	<u>123</u>	<u>124</u>	<u>125</u>	<u>126</u>	<u>127</u>	<u>128</u>	<u>129</u>	<u>130</u>
131	132	133	134	135	136	137	138	139	140
<u>141</u>	<u>142</u>	<u>143</u>	<u>144</u>	<u>145</u>	<u>146</u>	<u>147</u>	<u>148</u>	<u>149</u>	<u>150</u>
151	152	153	154	155	156	157	158	159	160
<u>161</u>	<u>162</u>	<u>163</u>	<u>164</u>	<u>165</u>	<u>166</u>	<u>167</u>	<u>168</u>	<u>169</u>	<u>170</u>
171	172	173	174	175	176	177	178	179	180
<u>181</u>	<u>182</u>	<u>183</u>	<u>184</u>	<u>185</u>	<u>186</u>	<u>187</u>	<u>188</u>	<u>189</u>	<u>190</u>
191	192	193	194	195	196	197	198	199	200

<u>201</u>	<u>202</u>	<u>203</u>	<u>204</u>	<u>205</u>	<u>206</u>	<u>207</u>	<u>208</u>	<u>209</u>	<u>210</u>
211	212	213	214	215	216	217	218	219	220
<u>221</u>	<u>222</u>	<u>223</u>	<u>224</u>	<u>225</u>	<u>226</u>	<u>227</u>	<u>228</u>	<u>229</u>	<u>230</u>
231	232	233	234	235	236	237	238	239	240
<u>241</u>	<u>242</u>	<u>243</u>	<u>244</u>	<u>245</u>	<u>246</u>	<u>247</u>	<u>248</u>	<u>249</u>	<u>250</u>
251	252	253	254	255	256	257	258	259	260
<u>261</u>	<u>262</u>	<u>263</u>	<u>264</u>	<u>265</u>	<u>266</u>	<u>267</u>	<u>268</u>	<u>269</u>	<u>270</u>
271	272	273	274	275	276	277	278	279	280
<u>281</u>	<u>282</u>	<u>283</u>	<u>284</u>	<u>285</u>	<u>286</u>	<u>287</u>	<u>288</u>	<u>289</u>	<u>290</u>
291	292	293	294	295	296	297	298	299	300
<u>301</u>	<u>302</u>	<u>303</u>	<u>304</u>	<u>305</u>	<u>306</u>	<u>307</u>	<u>308</u>	<u>309</u>	<u>310</u>
311	312	313	314						

Notes: The number in each cell is the ranking number in the following Promise Organizations. The numbers in bold represent research institutions, while those in non-bold and smaller font represent other organisations. Promiser I, represented in dark blue, signifies promises made by organisations. Promiser II, represented in light blue, indicates promises made by individual experts. "Not yet," represented in grey, signifies that no one in the organisation has made a promise yet.

4. Chronicle of major events and major participants

1. On November 18-19, 2022, Mr. Muhammad Shahid Iqbal and Ijaz Khan, Pakistan PhD. Students at Hainan Normal University, attended the first NESS Congress and launched the Haikou Initiative together with other 202 participants from 26 countries.
2. On January 17, 2023, Prof. Subhan Qureshi, President, Dairy Science Park; Professor, Khyber Pakhtunkhwa Agricultural University, became a supporter of Haikou Initiative.
3. On February 20, 2023, Mr. Muhammad Shahid Iqbal visited NESS ISN office in University Science Park of Hainan Normal University together with his supervisor Prof. Hong Meilin and Prof. Lin Liu. Prof. Hong initiated the preparation of ESSAP Forum of International Students with Mr. Muhammad Shahid Iqbal's assistance.
4. On October 13, 2023, Mr. Tian Dexin, Dr. Xie Yan had the first online meeting with Prof M Subhan Qureshi and Dr. Sher Bahadar Khan to discuss working in Pakistan.
5. On October 13, 2023, NESS Pakistan: <https://dairysciencepark.org/ness/> became available and the Preparatory Committee NESS-Pak was established.
6. On October 27~30, 2023, Prof. Subhan Qureshi attended the 2023 NESS Congress online and delivered the presentation of "Our responsibility to protect the future of our kids on the Planet Earth".
7. On October 27~30, 2023, Mr. Muhammad Shahid Iqbal attended the 2023 NESS Congress, and was in charge of communication with International Students in Hainan Normal University and Hainan Medical University. Co-Chaired the ESSAP Forum of International Students.
8. On November 10, 2023, Prof M Subhan Qureshi received an ICP certificate.
9. On November 14, 2023, Prof M Subhan Qureshi prepared the *Pakistan Initiative*.
10. On December 6-8, 2023, Mr. Tian Dexin, Dr. Xie Yan attended the IRAD AWKUM Conference online (Annex-1), co-organized by the President NESS-Pak Preparatory Committee, Prof M Subhan Qureshi, Secretary Prof Sher Bahadar Khan and other supporters of NESS. A paper titled, 'Integrated approach for maintaining eco-security in Pakistan under NESS-PAK'. A call was made for registration of Supporters for NESS to the participants and a Google Form was launched for collection of data. The following recommendations were made by the Conference:
 - a) National Research Center for National Eco-Security System Pakistan (NRC-NESS-Pak) will be established at AWKUM Mardan.
 - b) IRAD AWKUM Conference papers will be shared with NESS for their international database.
 - c) The next International NESS Conference will be held at AWKUM in cooperation with NESS-ISN Beijing.
 - d) The Preparatory Committee NESS-Pak will hold National Workshops in coordination with HEC/PSF and other sponsors for issues identification and strategy development to respond to the issues.
11. On January 7, 2024, Prof M Subhan Qureshi sent the first list of supporters (18 people, 5 institutions); followed by 143 supporters on 19 January and 30 more on 21 February.
12. On January 18, 2024, Mr. Tian Dexin, Dr. Xie Yan, and Dr. Sher Bahadar Khan discussed the work plan of NESS through an online meeting.
13. On 1 March, 4 Institutional Representatives were notified for various organisations.
14. On 14 March, 203 persons and 98 institutions were notified as NESS Supporters on the NESS-Pak website.