

Changes made to the NBN Strategic Action Plan following Network Consultation

Strategic Aim 1: NBN will capture, diversify, enhance and mobilise biological data

Strategic Action	Priority	Time-scale	Suggested changes to Action Plan following consultation	NBN Secretariat Response and Changes
1A. Increase, streamline and standardise the capture of high quality, structured biological data				
3. Review and improve NBN data exchange standards to provide for more attributes (such as life stage, abundance and associations), metadata, resolution and openness	Mission Critical	One-off with review	Why mission critical? Presumably only the openness element is mission critical. Not sure this is as important as "Mission Critical".	Changed to 'High Priority'
9. Support sharing of biological data by ecological consultants	Moderate	Ongoing	Why an action for this and nothing for academics?	Action (2A.3) focuses on Academics "support research community". Updated action to 2A.3 "Support the research community in all stages of the data flow pathway" to stress the need for biodiversity data to be recognised
1.B Diversify the data available through the NBN				
2. Develop and implement a programme of work to capture ecosystem and habitat data	Low	One-off	This should be a high priority.	Changed to 'High Priority'
1C Ensure rapid flow ('time to market') of biological data from recorders to users				
1. Develop an agreed and simplified data flow model for the NBN family to ensure efficient and effective data flow at all spatial scales	Mission Critical	One-off	This action needs regular review	Changed to be 'with regular review'
1D Support, motivate and celebrate the success of existing biological recorders				
2. Celebrate the success of recorders through the development of an awards scheme for biological recording	High	One-off with review		Incorporates deleted action 3D.2 "Celebrate success through NBN awards for biological recording and "Volunteer of the month""

				Updated action 1D.2 “Celebrate the success of recorders through the development of an awards scheme for biological recording and volunteer of the month”
3. Promote, develop and provide resources for recorders (handbooks, publications and tools)	Low	Ongoing	However, despite the low priority rating this should be seen as important (and potentially something that would appeal to appropriate funders) This should be 'high' priority if the goal is to increase the numbers of recorders, and their skill levels, this is important.	Changed to be 'High Priority'
1E Double the number of biological recorders through recruitment, training and retention				
1. Develop and support learning programmes and systems for biodiversity identification	Moderate	Ongoing	This should be 'high' priority if the goal is to increase the numbers of recorders, and their skill levels, this is important.	Changed to be 'High Priority'
3. Mobilise new audiences and demographics of recorders (e.g., through creating nature-recording ambassadors, promoting BioBlitz events, gamification and leader boards and promoting in education)	Low	Ongoing	This should be 'high' priority if the goal is to increase the numbers of recorders, and their skill levels, this is important. Surely accurate records are more important the 'winning' (gamification and leader boards)	Changed to be 'High Priority' Incorporates deleted action 3A.3 Attract new generations of biological recorders and motivate to increase recording and share data Updated action “1E.3. Attract and mobilise new audiences and demographics of recorders (e.g., through creating nature-recording ambassadors, promoting BioBlitz events, gamification and leader boards and promoting in education) and motivate to increase recording and sharing of data

				Comment noted
4. Establish taxonomic group mentoring schemes	Low	One-off	This should be 'high' priority if the goal is to increase the numbers of recorders, and their skill levels, this is important.	Updated to be 'High Priority'
5. Create a learning pathway to improve 'new recorder' skill levels through training and support from Network members	Moderate	Ongoing	Consider to be a subset of 1E:4 "Establish taxonomic group mentoring schemes"	Agreed, however decision to keep these actions separate. Important to acknowledge their relationship

Strategic Aim 2: NBN will make biological data and information available to everyone

Strategic Action	Priority	Time-scale	Suggested changes to Action Plan following consultation	NBN Secretariat Comments/Response
2A Treble visitation to the NBN family of projects and systems				
1. Regularly assess data user needs and continuously improve the user interfaces of NBN products	High	Ongoing		Incorporates deleted action 2D.4 "Provide and use forums for discussion of user needs" Updated action "2A.1 Regularly assess data user needs and continuously improve the user interfaces of NBN products using forums and other mechanisms"
3. Support the research community (including establishing a national NBN student research grant scheme)	Low	Ongoing	Priority should be 'high' - if the data is to be used as much as possible its use by the research community is vital	Updated to High

4. Communicate regularly with data users and promote their activities	High	Ongoing		<p>Deleted and merged with</p> <p>2B.1 ""promote and demonstrate the many different example of how biological data can be used (through online tutorials and NBN eNews and other media)</p> <p>2B.3 ""publish case studies to demonstrate how data are being used""</p> <p>2C.2 "Educate people about how they can view and access data on NBN systems (including NBN member systems)"</p> <p>Updated action to "2C.2. Communicate regularly with data users and promote and demonstrate the many different example of how biological data can be used, applied and visualised (through online tutorials, case studies and NBN eNews and other media)"</p>
7. Provide users of NBN systems with a customised profile that can be saved	Low	One-off		<p>Deleted and merged with 4C.6 "Develop an interconnected web between the NBN Trust family of projects and infrastructure (e.g., a unique login system for all NBN Trust data systems)"</p> <p>Updated action 4C.6. "Develop an interconnected web between the NBN Trust family of projects and infrastructure (e.g., a unique login system for all NBN Trust data systems)"</p>
2B Increase the visibility and openness of, and speed of access to, UK biological data in perpetuity				
3. Publish case studies to demonstrate how data are being used	Moderate	Ongoing		<p>Deleted and merged with</p> <p>2C.2 "Educate people about how they can view and access data on NBN systems (including NBN member systems)"</p> <p>2A.4. Communicate regularly with data users and promote their activities</p>

				<p>2B.3 ""publish case studies to demonstrate how data are being used""</p> <p>Updated action to "2C.2. Communicate regularly with data users and promote and demonstrate the many different example of how biological data can be used, applied and visualised (through online tutorials, case studies and NBN eNews and other media)"</p>
<p>**NEW ACTION**</p> <p>4. Raise awareness of the importance and implications of data licenses for data providers and data users throughout the Network and implement a suite of data licenses for use.</p>	<p>Mission Critical</p>	<p>Ongoing</p>		
<p>2C Significantly increase data use for a wide range of purposes.</p>				
<p>2. Demonstrate how biological data can be applied and visualised</p>	<p>Moderate</p>	<p>Ongoing</p>		<p>Incorporates deleted actions</p> <p>2A.4 Communicate regularly with data users and promote their activities</p> <p>2B.3 "publish case studies to demonstrate how data are being used</p> <p>"3B.1 "promote and demonstrate the many different example of how biological data can be used (through online tutorials and NBN eNews and other media)</p> <p>Updated action to "2C.2. Communicate regularly with data users and promote and demonstrate the many different example of how biological data can be used, applied and visualised (through online tutorials, case studies and NBN eNews and other media)"</p>

2D Enable and facilitate permissionless innovation by data users.				
1. Build a spatial platform to provide integration of species and ecosystem data with environmental data layers	Low	One-off	Is this an NBN function?	Yes definitely. No action required Deleted and merged with 4C.2 Develop a spatial portal to integrate species and ecosystem data with environmental layers.
2. Provide data interpretation, analysis and visualisation services to meet NBN user needs	Moderate	Ongoing	Is this an NBN function?	Incorporates deleted action 2D.6 "Evaluate and adopt existing open source data visualisation systems" Updated action 2D.1 "Provide data interpretation, analysis and visualisation services to meet NBN user needs, including the adoption of existing open source data visualisation systems." Yes definitely. No action required
3. Publish data quality measures for records and data sets	High	One-off	Is this an NBN function?	Yes definitely. No action required
4. Provide and use forums for discussion of user needs	Moderate	Ongoing		Deleted and merged with 2A.1 "Regularly assess data user needs and continuously improve the user interfaces of NBN products" Updated action "2A.1.Regularly assess data user needs and continuously improve the user interfaces of NBN products using forums and other mechanisms"
6. Evaluate and adopt existing open source data visualisation systems	Moderate	One-off		Deleted and merged with 2D.2 "Provide data interpretation, analysis and visualisation services to meet NBN user needs" Updated action 2D.1 "Provide data interpretation, analysis and visualisation services to meet NBN user needs, including the adoption of existing open source data visualisation systems."

Strategic Aim 3: NBN will captivate and engage people about wildlife

3A Engage the public about biodiversity and biological recording				
3. Attract new generations of biological recorders and motivate to increase recording and share data	Mission Critical	Ongoing		<p>Deleted and merged with 1E.3 Mobilise new audiences and demographics of recorders (e.g., through creating nature-recording ambassadors, promoting BioBlitz events, gamification and leader boards and promoting in education)</p> <p>Updated action 1E3. "Attract and mobilise new audiences and demographics of recorders (e.g., through creating nature-recording ambassadors, promoting BioBlitz events, gamification and leader boards and promoting in education) and motivate to increase recording and sharing of data"</p>
3B Promote the value of biological data				
1. Promote and demonstrate the many different examples of how biological data can be used (through online tutorials and NBN eNews and other media)	High	Ongoing		<p>Deleted and merged with</p> <p>2A.4 Communicate regularly with data users and promote their activities</p> <p>2B.3 "publish case studies to demonstrate how data are being used</p> <p>2C.2 "Educate people about how they can view and access data on NBN systems (including NBN member systems)"</p> <p>Updated action to "2C.2. Communicate regularly with data users and promote and demonstrate the many different example of how biological data can be used, applied and visualised (through online tutorials, case studies and NBN eNews and other media)"</p>

3C Promote the NBN family as the principle providers of biological and environmental data in the UK				
1. Promote the data infrastructure and the tools available and show how anyone can use them	Moderate	Ongoing		<p>Incorporates deleted action 4B.1. Provide training to users in how to make the most of the current infrastructure</p> <p>Updated action 3C.1. “Promote the data infrastructure and the tools available and provide training to users in how to make the most of the current infrastructure”</p>
3D Promote the NBN and increase participation through membership and sponsorship				
2. Celebrate success through NBN awards for biological recording and “Volunteer of the month”	Low	Ongoing		<p>Deleted and merged with 1D.2. Celebrate the success of recorders through the development of an awards scheme for biological recording</p> <p>Updated action 1D.2 “Celebrate the success of recorders through the development of an awards scheme for biological recording and volunteer of the month”</p>

Strategic Aim 4: NBN will provide the best biological information management structure

Strategic Action	Priority	Time-scale	Suggested changes to Action Plan following consultation	NBN Secretariat Comments/Response
Objective 4A Provide a stable and secure platform for the NBN infrastructure				
4. Hold regular meetings of the NBN Gateway Project Group and NBN Gateway User Group	Mission Critical	Ongoing		Deleted following rapid progression of Atlas infrastructure projects.

4B Standardise the tools and systems used by the NBN				
1. Provide training to users in how to make the most of the current infrastructure	Low	Ongoing		<p>Deleted and merged with 3C.1. Promote the data infrastructure and the tools available and show how anyone can use them</p> <p>Updated action 3C.1. "Promote the data infrastructure and the tools available and provide training to users in how to make the most of the current infrastructure"</p>
4C Improve the interoperability of the NBN family of data infrastructure				
2. Develop a spatial portal to integrate species and ecosystem data with environmental layers	Moderate	One-off		<p>Incorporates deleted action 2D.1 "Build a spatial platform to provide integration of species and ecosystem data with environmental data layers"</p>
5. Improve the user interface of NBN systems and improve mechanisms for publishing data to NBN Gateway	High	One-off with review		<p>Action split into two. "Improve the user interface of NBN Systems..." merged with actions 2A.1 Regularly assess data user needs and continuously improve the user interfaces of NBN products using forums and other mechanisms" 2D.4 Provide and use forums for discussion of user needs</p> <p>Updated action "Improve mechanisms for publishing data to NBN Gateway"</p>
6. Develop an interconnected web between the NBN Trust family of projects and infrastructure (e.g., a unique login system for all NBN Trust data systems)	Mission Critical	One-off		<p>Incorporates deleted action 2A.7. Provide users of NBN systems with a customised profile that can be saved</p> <p>Updated action 4C.6. "Develop an interconnected web between the NBN Trust family of projects and infrastructure (e.g., a unique login system for all NBN Trust data systems)"</p>

