FORMAT				
1. Name of resource	CABI One Health Knowled	dge Bank		
2. Location	https://www.cabidigitallibrary.org/product/1k			
3. Alternative location				
4. Author[s]	CABI			
5. Publisher/producer/host	CABI			
6. Year				
7. Suggested citation	CABI One Health Knowled	lge Bank.		
	https://www.cabidigitallibrary.org/product/1k			
8. Languages in which	English (web pages transla			
available	0 . (		77	
9. Geographic area	Global			
resource relates to				
10. Does the resource relate				
to a specific time frame?				
11. Type	Report			
	Toolkit/Framework/Road	map		
	Sign-post to other resource	· ·	Yes	
	(database)			
	Case studies		Yes	
	Other		Newsletters,	
	•		blogs, policy	
			briefings, platform	
	to share resources			
12. If this is part of an	CABI, "The One Health Knowledge Bank sits alongside			
initiative, what is the	CABI One Health, an open access journal, and One Health			
initiative?	Cases."			
COLLECTIONS AND COLLECTIONS-				
13. Explicit links to	No			
collections				
14. Explicit links to	No			
museums/libraries/archi				
ves				
15. Types of institutions the	Museums X			
resource covers	Archives X			
	Libraries X		,	
	Other X			
16. Does the resource relate	Arts, humanities and	Х		
to specific disciplines?	social sciences:			
	philosophy,			
	psychology, religion,			
	social sciences, law,			
	politics, language, arts			
	and recreation,			
	and the second second second			
	architecture, literature,			

ethnology,	
anthropology,	
archaeology	
Science, natural X	
history, technology,	
medicine, engineering,	
manufacturing	
17. If no explicit links to The resource can be used by colle	ections-based
collections, justification institutions to inform collections-	based activities related
for inclusion to One Health, for example public	awareness
programmes, education or resear	ch programmes
drawing on collections.	
HOW IT CONTRIBUTES TO SUSTAINABLE DEVELOPMENT	
18. Collections-related activities the resource relates to (mark a	II that apply)
Develop collections to protect and safeguard wider cultural and	Χ
natural heritage more effectively, for example by targeting	
collecting to threatened forms of heritage in strategic ways	
Use collections to promote learning and educational	Х
opportunities that contribute to sustainable development more	
effectively, for example education for sustainable development	
and sustainable lifestyles, human rights, gender equality,	
promotion of a culture of peace and non-violence, global	
citizenship and appreciation of cultural diversity and of culture's	
contribution to sustainable development and/or skills development	
relating to collections	
Use collections to promote cultural participation/social inclusion	
more effectively, for example by reducing barriers to participation,	
to ensure no-one is 'left behind'	
Use collections to promote sustainable tourism more effectively,	
for example by developing new products based on local cultural	
heritage, and/or considering the rights of stakeholder groups in	
relation to collections	
	X
Use collections to support research that contributes to	^
sustainable development (including all forms of personal and self-	
directed research at all levels that make use of stored collections)	
more effectively, for example by providing effective facilities,	
collections and information to meet researchers' needs	
Make decisions around collections that contribute to sustainable	
development more effectively	
i. employment (recruiting, staff training, staff safety)	
ii. energy consumption, greenhouse gas emissions,	
reduction, monitoring and reporting	
iii. waste management and reduction of waste	
iv. transport (forms of transport, energy use)	
v. commercial activities including copyright and IP	
vi. governance and management	

vii. security, disaster preparedness and risk reduction	X			
Direct external leadership, partnerships and collaborations	X			
towards sustainable development more effectively, for example				
by developing impactful partnerships				
19. Does the resource relate clearly to any international conven	tions (mark all that			
apply)?				
Culture conventions:				
1952, 71 Protection of Copyright and Neighbouring Rights				
1954 Protection of Cultural Property in the Event of Armed Conflict				
1970 Fighting Against the Illicit Trafficking of Cultural Property				
1972 Protection of the World Cultural and Natural Heritage				
2001 Protection of the Underwater Cultural Heritage				
2003 Safeguarding of the Intangible Cultural Heritage				
2005 Protection and Promotion of the Diversity of Cultural				
Expressions				
Rio Conventions:				
Convention on Biological Diversity (CBD), Convention to Combat	Х			
Desertification (UNCCD), Framework Convention on Climate				
Change (UNFCCC)				

#### AIMS AND CONTENT

20. What issues does the resource aim to address?

"The One Health Knowledge Bank is a new resource bringing together One Health information and knowledge from different sources. Content focuses on the interconnections between humans, animals, plants, ecosystems, and their shared environment.

#### We define One Health as:

"any added value in terms of human, animal, plant and environmental health, sustainability, financial savings, and social resilience, achievable by the cooperation of the human, veterinary, plant, environmental and social sciences when compared to the disciplines working independently."

#### Transdisciplinary approach

The One Health Knowledge Bank champions a transdisciplinary approach to One Health that considers academic and non-academic, practical, local and indigenous knowledge in the research process. This approach encompasses exchange and cooperation among the scientific disciplines as well as between science and society. CABI believes that working together across disciplines and industries adds value leading to practical solutions.

With this in mind, the One Health Knowledge Bank brings together resources on best practice within One

	Health and transdisciplinary research approaches, in order to help further One Health research.  Bringing together dispersed One Health content The One Health Knowledge Bank brings together a wide range of One Health information. This includes content from CABI's One Health resources. Combined in one place for the first time, it includes resources ranging from journal articles to cases and book chapters, alongside news, blogs and events.
	The goal of the One Health Knowledge Bank is ambitious. In time it will include datasets and grey literature, accompanied by community updates. As the Knowledge Bank grows, it will also contain CABI's abstracting and indexing (A&I) products, as well as material from collaborating organisations and key opinion leaders within One Health.
	Powerful search functionality helps to find and use the content you need, making it easy to access quality-controlled curated resources. One Health Knowledge Bank is a reliable and easy to use resource for scientists, policy-makers, practitioners and students alike.
	Free to access case studies Explore our free to access case studies. These sample cases demonstrate the writing style and key features of our publications, and may also showcase hot topics or important subject areas." (About)
21. Intended audience of resource	"One Health Knowledge Bank is a reliable and easy to use resource for scientists, policy-makers, practitioners and students alike." (About)
22. Process of development	"This integrated suite of One Health resources promote the sharing of One Health knowledge, practical experiences, education and training. They are edited by Jakob Zinsstag and Lisa Crump, from the Swiss Tropical and Public Health Institute, Switzerland, alongside an international and diverse Editorial Board of One Health experts." (About)
23. Organisation/structure/c ontents	Home About Browse [searchable database on topics, type of resource, subject area and more] Contribute
FRAMEWORKS	
24. Framework structure	

2E Polovent notice	Voc
25. Relevant policy considerations	Yes
26. Resources for	Yes
implementation	i es
identified	
27. Specific assessment	No
points/indicators/milest	
ones/action plan for	
monitoring	
	ITY COVERED BY RESOURCE (mark all that apply)
People (social sustainability)	X
Planet (environmental	Х
sustainability)	
Prosperity (economic	Х
sustainability)	
Peace	Х
Partnerships	Х
	RATIONS COVERED BY RESOURCE (mark all that apply)
Gender perspectives	X
North and South perspectives	Х
	TES TO AGENDA 2030 AND THE SDGs
<b>HOW AGENDA 2030 AND THE SD</b>	Gs FEATURE IN THE RESOURCE
30. SDGs and Agenda 2030	No
specifically mentioned?	
31. SDGs specifically	No
mentioned?	
32. SDG targets specifically	No
mentioned?	
33. SDG indicators	No
specifically mentioned?	
SDGs AND SDG TARGETS AND LIN	NKAGES
34. Comments on SDG	The resource can help collections-based institutions
linkages	integrate considerations of One Health (integrating
	human, domesticated animal, wild animal and ecosystem
	health) in their activities. Resources within the overall
	collection/database will support additional SDG targets.
	These relate to managing risk facing poor people (1.5),
	2.1 (ensuring people have access to food), 2.3
	(supporting the income of small-scale farmers through
	knowledge sharing and other activities), 2.4 (sustainable
	agriculture that is resilient to threats), 2.5 (ensuring
	conservation of crop diversity and related knowledge),
	3.3 (ending epidemics of communicable diseases), 3.D
	(preparedness for health threats), 4.4 (skills for work),
	4.7 (Education for Sustainable Development), 9.5

(support scientific research), 11.4 (protect and safeguard cultural and natural heritage), 11.5 (reduce the impact of disasters), 11.8 (integrated policies for inclusion and risk management), 12.4 (managing chemicals and wastes), 12.8 (information for lifestyles in harmony with nature), 13.1 (climate adaptation), 13.3 (climate education and awareness), 15.1 (conservation, restoration and sustainable use of habitats and species), 15.2 (sustainable use of forests), 15.5 (prevent degradation of habitats and related extinctions), 15.8 (prevent introduction and spread of invasive alien species), 17.16 (global partnerships) and 17.17 (cross-sector and local partnerships).

#### 35. SDGs and SDG targets the resource helps advance

#### SDG 1: End poverty in all its forms everywhere

1.5 By 2030, build resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters.

Number of collecting programmes that aim to build resilience to climate-related events and other shocks and disasters, for example by forming collections that can contribute to related educational and research programmes.

Number of educational programmes drawing on collections that incorporate resilience perspectives.

Number of targeted programmes drawing on collections that are aimed at vulnerable groups, to build their resilience to climate-related and other shocks and disasters.

Number of research programmes drawing on collections that are aimed at building resilience to climate-related and other shocks and disasters.

Strengthen the resilience of employees, communities and suppliers by paying at a minimum the living wage and offering insurance to employees and their families, such as accident insurance; and by paying fair prices to all suppliers

# SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture 2.1 By 2030, end hunger and ensure access by all people, in particular the poor and people in vulnerable situations, including infants, to safe,

Number of educational programmes incorporating food security, nutrition and seasonal diet perspectives.

Collections development related to food security, nutrition and seasonal diets, as appropriate

Number of targeted educational, awareness-raising and partnership programmes relating to food and nutrition,

nutritious and sufficient food all year round

drawing on collections, aimed at vulnerable and marginalized groups.

Number of research activities drawing on collections that relate to resilient agricultural practices, helping mitigate and adapt to climate change, flooding and other disasters.

#### SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture 2.3 By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers, pastoralists and fishers, including through secure and equal access to land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment

Collections development that can support programmes related to small-scale food producers, for example by ensuring that traditional knowledge is preserved and maintained.

Number of educational, awareness-raising, research and partnership programmes based on collections that support small-scale food producers, both in terms of supporting the producers themselves, and that support others to support them.

Policies and plans in place to ensure that tourism activities support (and do not infringe upon) people's rights of access to land for agricultural purposes.

Provide markets for small-scale food producers' products.

## SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture

2.4 By 2030, ensure sustainable food production systems to implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality.

Collections development related to sustainable food production where appropriate.

Number of educational and awareness-raising programmes incorporating sustainable food production perspectives, and that aim to reduce the impact of disasters on communities.

Number of targeted programmes that support those most exposed and vulnerable to disasters, whether locally or farther afield.

Number of research activities drawing on collections that relate to resilient agricultural practices, helping mitigate and adapt to climate change, flooding and other disasters.

Policies and plans in place to eliminate unsustainable food production from supply chains and in any food provision in collections-based institutions.

Number of partnership activities drawing on collections that contribute to Disaster Risk Reduction plans, supporting resilient agricultural practices, and helping mitigate and adapt to climate change, flooding and other disasters. SDG 2: End hunger, achieve Collections development related to genetic diversity of food security and improved seeds, cultivated plants, farmed and domesticated nutrition and promote animals (notably of local or at-risk varieties) and related sustainable agriculture wild species, for example in herbaria, museums, seed and gene banks, and seed libraries. 2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed Number of educational programmes related to genetic and domesticated animals and diversity of domesticated plants, animals and wild their related wild species, relatives. including through soundly managed and diversified seed Number of educational programmes related to fair and and plant banks at the national, equitable benefits of use of genetic resources and regional and international associated traditional knowledge, following international levels, and promote access to agreements (e.g. Nagoya Protocol). and fair and equitable sharing of benefits arising from the Number of educational and awareness programmes for utilization of genetic resources people to ensure that they are aware of their rights and and associated traditional protections in terms of traditional knowledge, and knowledge, as internationally exploitation of genetic resources. agreed Number of research activities that help understand traditional knowledge, and genetic diversity of crop plants and animals. Ensure that producers of crop plants and animals are fairly compensated. Policies and procedures in place to ensure legal compliance with fair and equitable benefits of use of genetic resources and associated traditional knowledge, following international agreements (e.g. Nagoya Protocol). Number of partnerships at national, regional and international levels, as appropriate, to soundly manage seed and plant banks. Collection development that can contribute to SDG 3: Ensure healthy lives and promote well-being for all at all programmes addressing AIDS, tuberculosis, malaria and/or neglected tropical diseases, combat hepatitis, ages water-borne diseases and other communicable diseases.

3.3 By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, waterborne diseases and other communicable diseases

Number of educational programmes addressing these subjects.

Number of targeted educational and participatory programmes for marginalized and at-risk groups relating to communicable diseases.

Number of research activities that help understand the causes and manage impacts of tuberculosis, malaria and other communicable diseases.

Partnerships in place to help ensure effective governance of communicable diseases, public health information and education relating to communicable diseases.

Steady flow of reliable information relating to communicable diseases.

#### SDG 3: Ensure healthy lives and promote well-being for all at all ages

3.D Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks.

Number of collecting initiatives that aim to build capacity for risk reduction to national and global health risks, for example by storing and preserving collections that may be of use in post-disaster scenarios, or that can be used in early warning and risk communication activities.

Number of educational programmes incorporating perspectives on early warning, risk reduction and management of national and global health risks.

Number of awareness raising programmes that target marginalized and vulnerable groups most exposed to health risks.

Plans in place for early warning, risk reduction and management to national and global health risks.

Relationships and partnerships in place for risk reduction and management in light of national and global health risks.

## SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

4.4 By 2030, substantially increase the number of youth

Number of young people and adults in skillsdevelopment activities and programmes drawing on collections, for employment, decent jobs and entrepreneurship and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship Increase in number of young people and adults in such programmes

Number and proportion of staff who have received training in the last year, to better support their contribution to the SDGs.

Programs and processes in place to ensure the availability of a skilled workforce.

## SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development

Numbers of people in each type of programme drawing on collections from different demographic groups.

Increases in numbers of people in each type of programme from different demographic groups.

Proportion of people involved in such programmes in relation to overall audience size.

Evidence that learners have acquired knowledge and skills to promote sustainable development.

## SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization

9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending

Number and proportion of collections facilities that effectively support research and researchers.

Number and proportion of staff who are appropriately skilled to undertake and support collections-based research.

Expenditure on initiatives to enhance and upgrade collections facilities.

Numbers of staff engaged in supporting and developing research use based on collections.

Number of initiatives to encourage innovation drawing on collections.

Increase in number of research and development workers per 1 million people.

Increase in public and private research and development spending being used to develop and make use of collections.

## SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.4 Strengthen efforts to protect and safeguard the world's cultural and natural

heritage

### 11.4.1 Total expenditure (public and private) per capita spent on the preservation, protection and conservation of all cultural and natural heritage, by type of heritage

Plans, policies and procedures in place for the safe use of collections for a variety of purposes, protecting and safeguarding both collections and those who use them.

Plans, policies and procedures in place for the identification, safeguarding and protection of cultural and natural heritage at risk.

Collecting programmes in place to protect, safeguard and make use of cultural and natural heritage, addressing the needs of communities and stakeholders, and ensuring that collections can be an effective resource for sustainable development.

Number and diversity of educational, awareness-raising, research programmes, and partnerships that aim to strengthen protection of cultural and natural heritage.

## SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable

11.5 By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations

Collections-based research that supports the understanding and management of disasters of all kinds.

Plans in place for public education and awareness drawing on collections and collections-based institutions to reduce exposure and vulnerability to disasters of all kinds.

Plans in place to ensure collections-based institutions steadily work to reduce their contributions to disaster risk, for example by reducing pollution and waste of all kinds.

Plans in place to ensure collections-based institutions, and people related to them (including workers) are protected from economic losses as a result of disasters.

Plans in place to provide special support/protection to poor and vulnerable people and groups in and following disasters.

## SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable

11.B By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for Disaster Risk Reduction 2015-2030, holistic disaster risk management at all levels

## 11.B.1 Proportion of local governments that adopt and implement local disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030a

Disaster Risk Reduction strategies and plans in place, in line with the Sendai Framework for Disaster Risk Reduction, to ensure collecting institutions and collections are factored into planning, and contribute effectively to Disaster Risk Reduction.

#### SDG 12 Ensure sustainable consumption and production patterns

12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment

Quantities, and reduction in quantities, of chemicals of all kinds, including chemicals used in maintenance of collections facilities, and chemicals used in care and preparation of collections, and all wastes throughout their life cycle, reducing release to air, water and soil.

Plans in place to eliminate the use and release of hazardous chemicals and harmful wastes of all kinds into the natural environment as soon as possible.

#### SDG 12 Ensure sustainable consumption and production patterns

12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature

12.8.1 Extent to which (i) global citizenship education and (ii) education for sustainable development (including climate change education) are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment

Extent to which global citizenship education and education for sustainable development (including climate change education) are mainstreamed in formal,

	informal and non-formal education programmes and activities drawing on and related to collections.
SDG 13. Take urgent action to combat climate change and its impacts 13.1 Strengthen resilience and adaptive capacity to climaterelated hazards and natural disasters in all countries	Plans in place for near and longer term to withstand and actively adapt to climate-related hazards and natural disasters.
SDG 13. Take urgent action to combat climate change and its impacts 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	Plans in place to enhance positive contributions to addressing climate change through use of collections.  Plans in place to ensure collections, collections institutions and broader society can adapt effectively to climate change.  Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early warning.
. G	Plans in place to reduce negative contributions of collections-related functions, e.g. measuring greenhouse emissions with plans and targets in place to reduce them.
SDG 15 Protect, restore and promote sustainable use of	Proportion of terrestrial and freshwater ecosystems in a good ecological condition.
terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	Information on, educational programmes, collections development, research and partnerships relating to terrestrial and freshwater ecosystems drawing on collections in place.
15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements	Policies relating to collections and their use aligned with international agreements for conservation and sustainable use of biodiversity.
SDG 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests,	Proportion of forests in a good ecological condition.  Information on, programmes relating to, collections development, and partnerships relating to forests

combat desertification, and	drawing on collections in place, to support their
halt and reverse land	protection and effective functioning.
degradation and halt	·
biodiversity loss	
15.2 By 2020, promote the	
implementation of sustainable	
management of all types of	
forests, halt deforestation,	
restore degraded forests and	
substantially increase	
afforestation and reforestation	
globally	
SDG 15 Protect, restore and	Number and proportion of habitats, notably endangered
promote sustainable use of	habitats, and species with favourable conservation
terrestrial ecosystems,	status, with special reference to locally, nationally and
sustainably manage forests,	globally endangered species.
combat desertification, and	
halt and reverse land	Information on, programmes relating to, collections
degradation and halt	development, and partnerships relating to habitats and
biodiversity loss	species drawing on collections in place, to support their
15.5 Take urgent and significant	protection and continued existence.
action to reduce the	
degradation of natural habitats,	Measures taken to enhance biodiversity value of green
halt the loss of biodiversity and,	space associated with collections institutions.
by 2020, protect and prevent	
the extinction of threatened	
species	
SDG 15 Protect, restore and	Number and proportion of invasive alien species for
promote sustainable use of	which effective measures are in place to reduce their
terrestrial ecosystems,	impact on land and water ecosystems.
sustainably manage forests,	impact off faria and water ecosystems.
combat desertification, and	Information on, programmes relating to, collections
halt and reverse land	development, and partnerships relating to invasive alien
degradation and halt	species, to support their effective management, and to
biodiversity loss	prevent spread and impact.
15.8 By 2020, introduce	p. 3. 3. 10 op. 300 una mipadoli
measures to prevent the	
introduction and significantly	
reduce the impact of invasive	
alien species on land and water	
ecosystems and control or	
eradicate the priority species	
SDG 17. Partnerships for the	Number and/or increase in number, and diversity of
goals	global and international multi-stakeholder partnerships
	that share collection-related knowledge, expertise,

17.16 Enhance the global partnership for sustainable development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the sustainable development goals in all countries, in particular developing countries

technology and financial resources to address the SDGs, or that otherwise involve collections-based organisations and institutions.

Number and/or increase in number, and diversity of global and international multi-stakeholder partnerships involving developing countries that share collection-related knowledge, expertise, technology and financial resources to address the SDGs.

#### SDG 17. Partnerships for the goals

17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships

#### 17.17.1 Amount of United States dollars committed to public-private and civil society partnerships

Number and/or increase in number, and diversity of local, national and regional multi-stakeholder (public, public-private and civil society) partnerships that address the SDGs drawing on collections, or that otherwise involve collections-based organisations and institutions.

<mark>1</mark>	<mark>2</mark>	<mark>3</mark>	<mark>4</mark>	5	6
7	8	<mark>9</mark>	10	<mark>11</mark>	<mark>12</mark>
<mark>13</mark>	14	<mark>15</mark>	16	<mark>17</mark>	