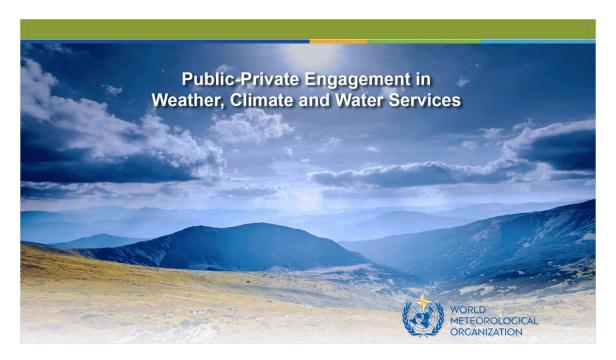
# Public-Private Engagement in Weather, Climate and Water Services

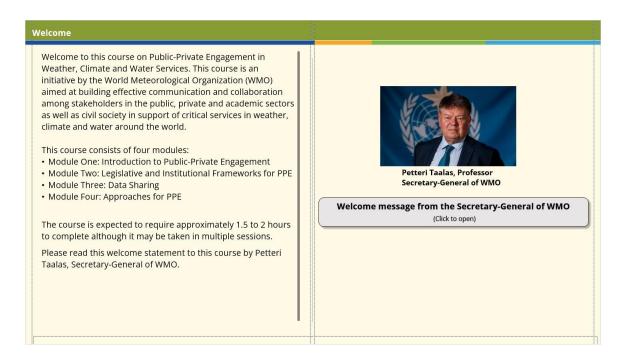
## 1. Module 1: Introduction to Public-Private Engagement

## 1.1 Public-Private Engagement Course

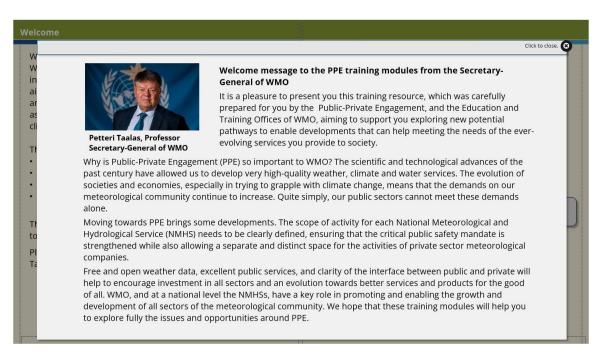


Notes:

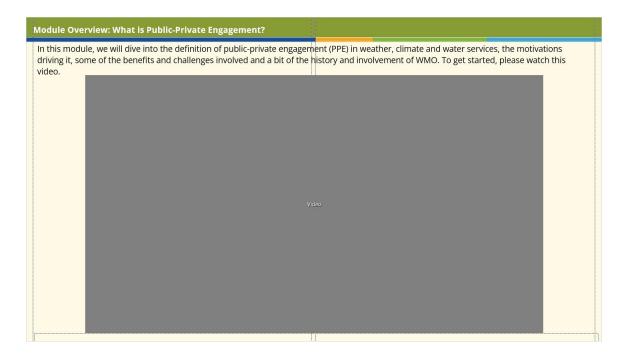
#### 1.2 Course Welcome



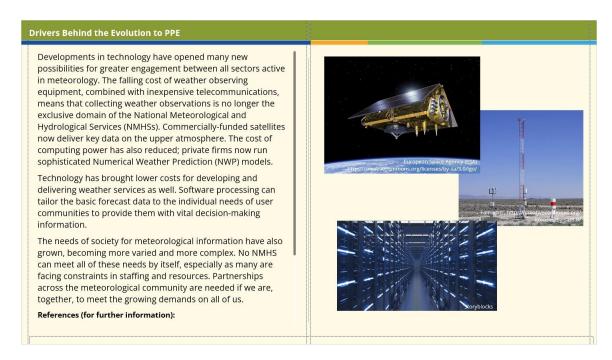
#### zoom1 (Slide Layer)



#### 1.3 Module Overview: What is Public-Private Engagement?

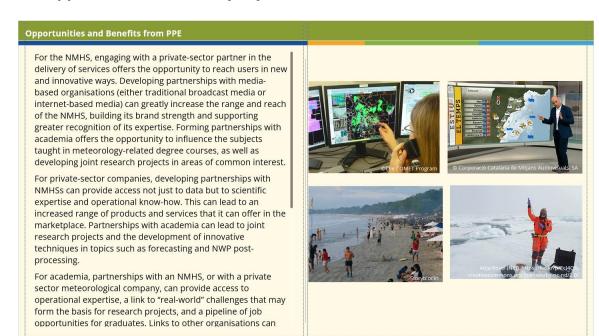


#### 1.4 Drivers Behind the Evolution to PPE

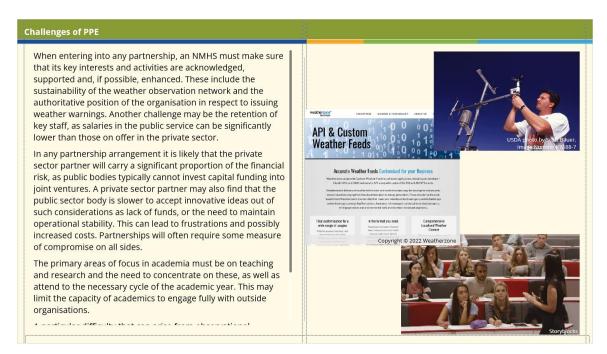


#### Notes:

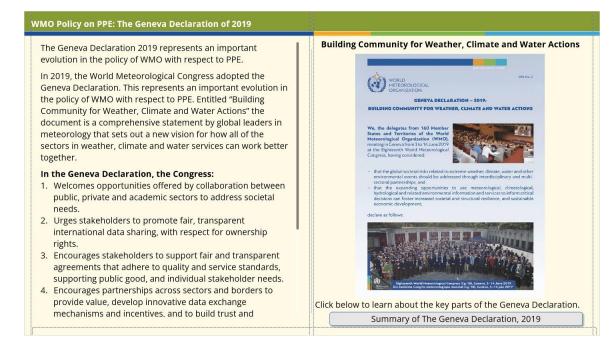
#### 1.5 Opportunities and Benefits from PPE



## 1.6 Challenges of PPE

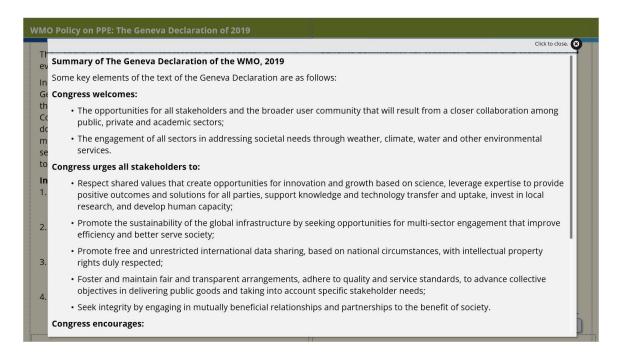


## 1.7 WMO Policy on PPE: The Geneva Declaration of 2019

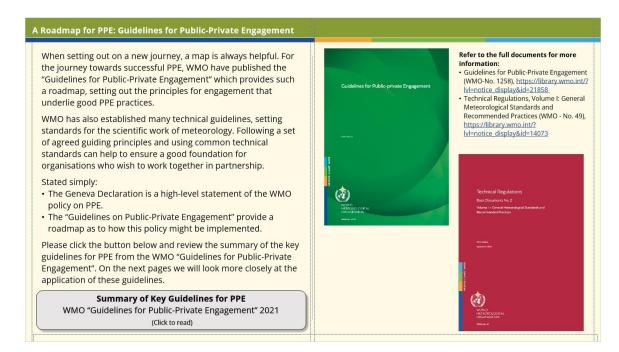


#### Notes:

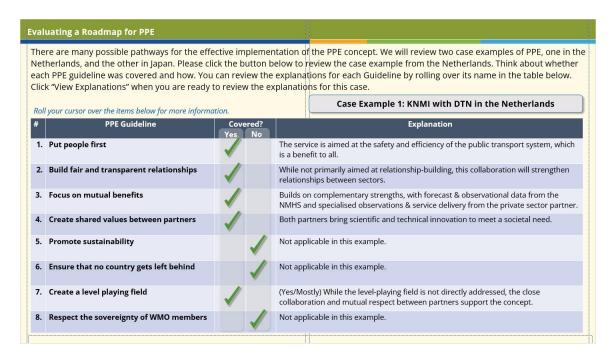
#### zoom1 (Slide Layer)



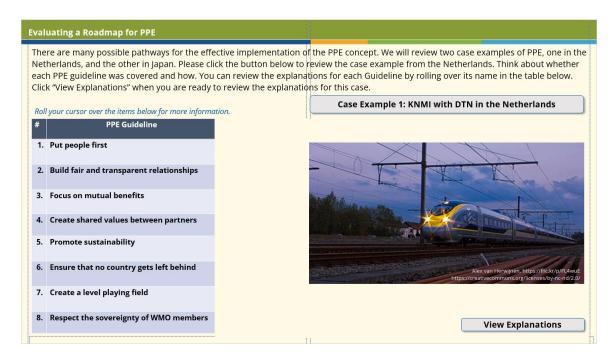
#### 1.8 A Roadmap for PPE: Guidelines for Public-Private Engagement



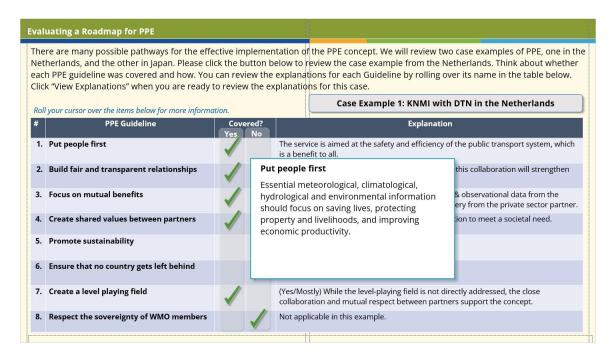
#### 1.9 Evaluating a Roadmap for PPE



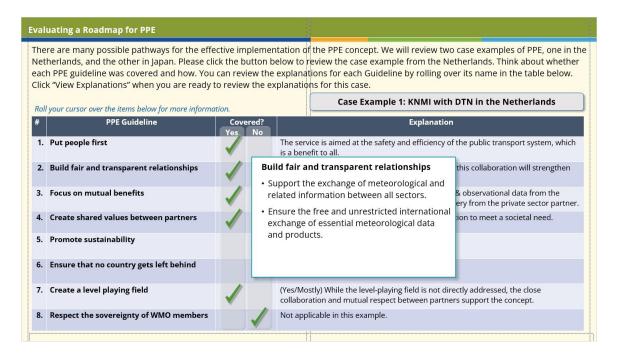
#### feedback cover (Slide Layer)



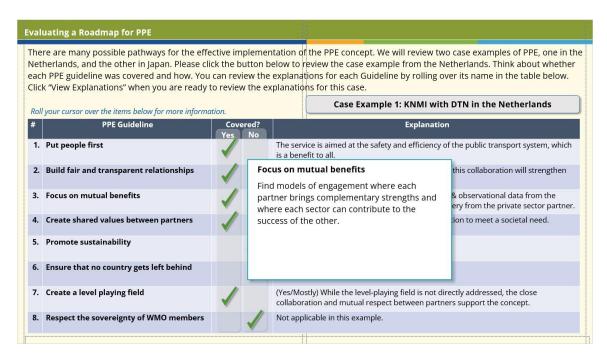
#### rollover 1 (Slide Layer)



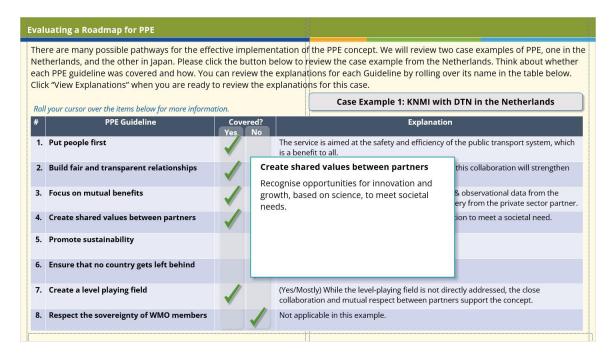
#### rollover 2 (Slide Layer)



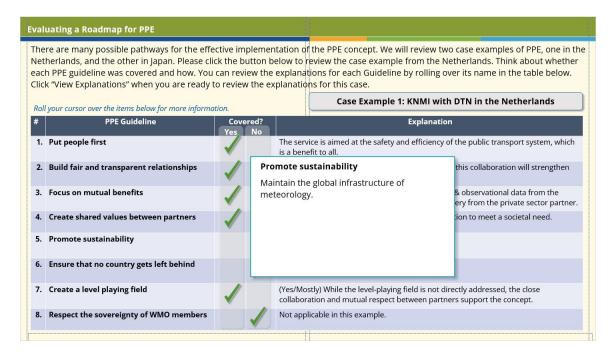
#### rollover 3 (Slide Layer)



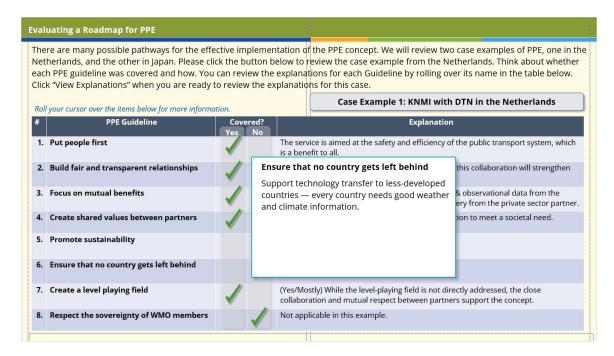
#### rollover 4 (Slide Layer)



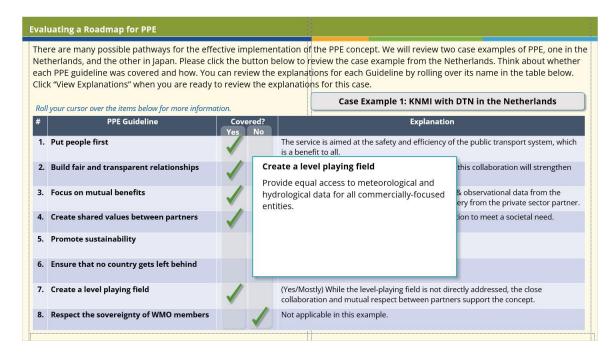
#### rollover 5 (Slide Layer)



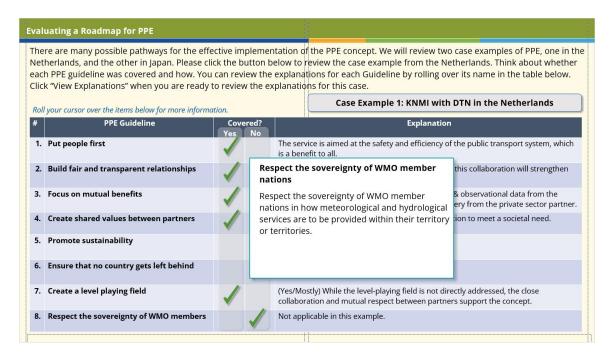
#### rollover 6 (Slide Layer)



#### rollover 7 (Slide Layer)



#### rollover 8 (Slide Layer)



# 1.10 Activity: Evaluating a Roadmap for PPE

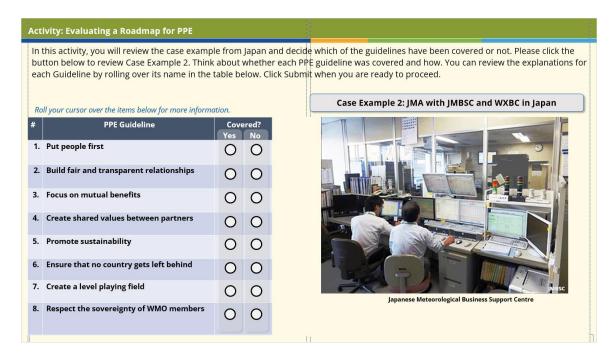
(Pick Many, 10 points, 2 attempts permitted)

Activity: Evaluating a Roadmap for PPE						
bu	In this activity, you will review the case example from Japan and decide which of the guidelines have been covered or not. Please click the button below to review Case Example 2. Think about whether each PPE guideline was covered and how. You can review the explanations for each Guideline by rolling over its name in the table below. Click Submit when you are ready to proceed.					
Roll your cursor over the items below for more information.  Case Example 2: JMA with JMBSC and WXBC in Japan						
#	PPE Guideline	Cove	ered?	Explanation		
1.	Put people first	0	0	The promotion of innovation in private sector meteorology in Japan leads to a broader range of services available to the public.		
2.	Build fair and transparent relationships	0	0	The legislative and administrative arrangements in Japan strongly support the building of fair and transparent relationships between partners.		
3.	Focus on mutual benefits	0	0	The arrangements in Japan allow each sector to build complementary strengths within a clear, open and consistent framework.		
4.	Create shared values between partners	0	0	The WXBC promotes innovation very directly through hosting workshops, training events, ideas workshops and similar.		
5.	Promote sustainability	0	0	The use of high-qualified, certified, third-party observing systems in Japan helps to augment the global meteorological infrastructure.		
6.	Ensure that no country gets left behind	0	0	Not applicable in this example.		
7.	Create a level playing field	0	0	The legislative policy and the consequent administrative arrangements in Japan strongly support the concept of the "level playing field".		
8.	Respect the sovereignty of WMO members	0	0	Japan's unique certification process for weather business personnel is an example of a member making appropriate meteorology governance arrangements to fit its own context.		

Correct	Choice
X	q1y1
Х	q2y 1
Х	Q3y 1
Х	Q4y 2
Х	Q5y
Х	Q6n
Х	Q7y
Х	Q8y
	q1n 1
	Q2n 1

Q3n 1	
Q4n 2	
Q5n	
Q6y	
Q7n	
Q8n	

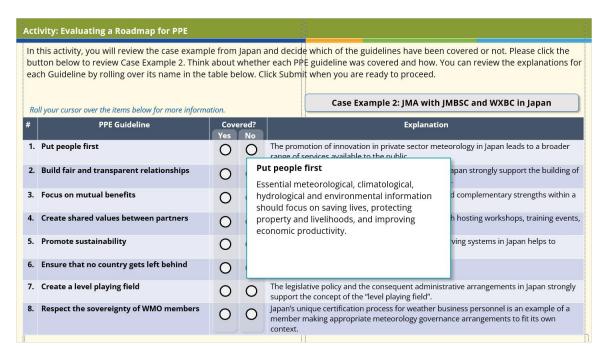
## feedback cover (Slide Layer)



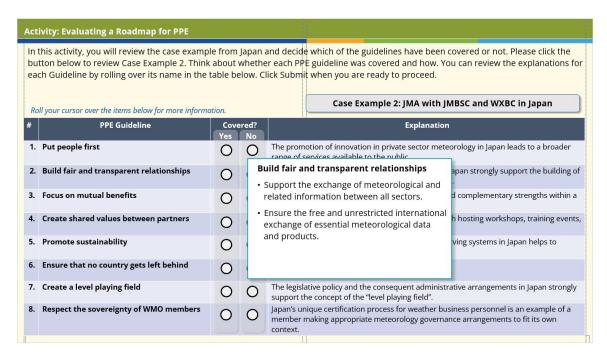
#### feedback (Slide Layer)



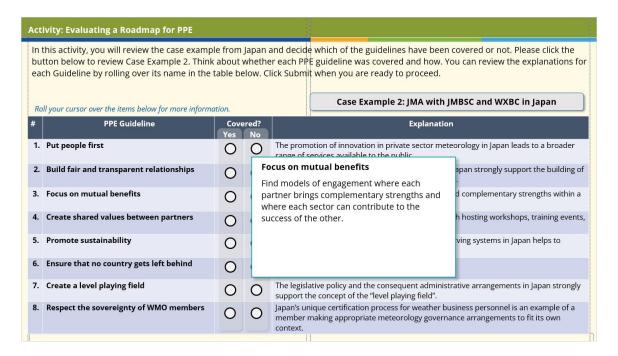
#### rollover 1 (Slide Layer)



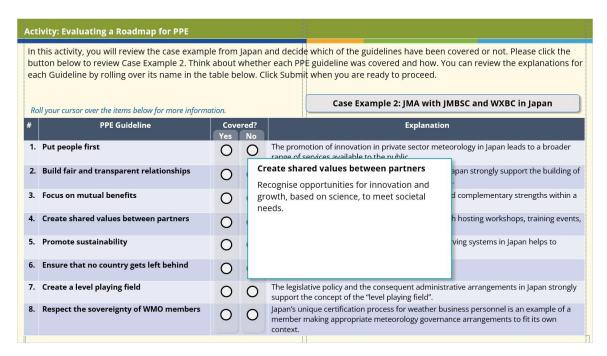
#### rollover 2 (Slide Layer)



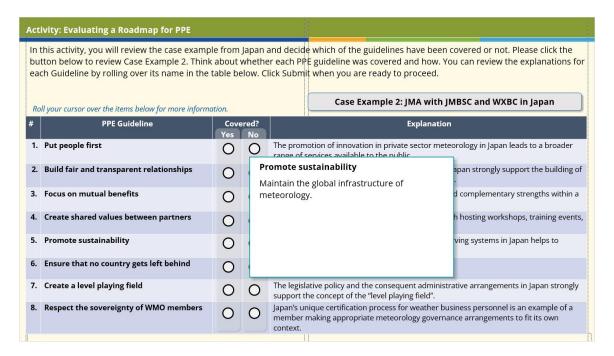
#### rollover 3 (Slide Layer)



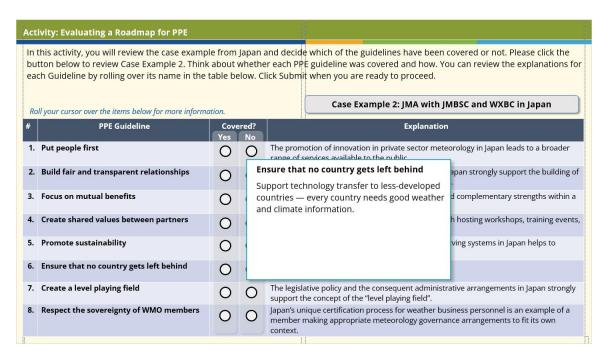
#### rollover 4 (Slide Layer)



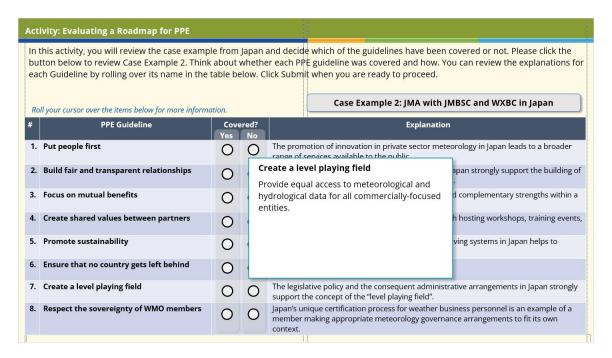
#### rollover 5 (Slide Layer)



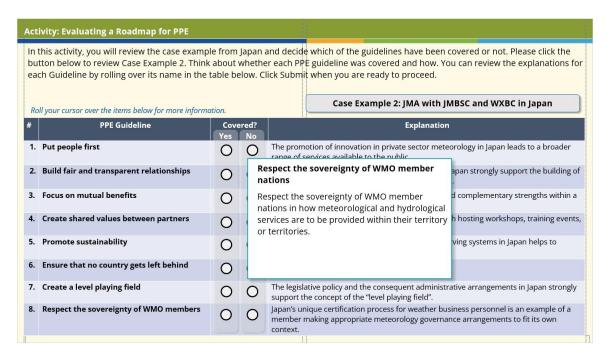
#### rollover 6 (Slide Layer)



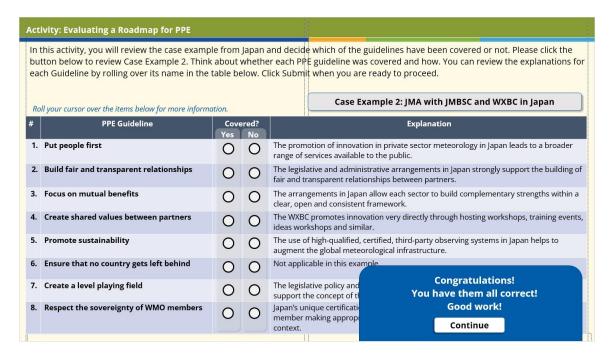
#### rollover 7 (Slide Layer)



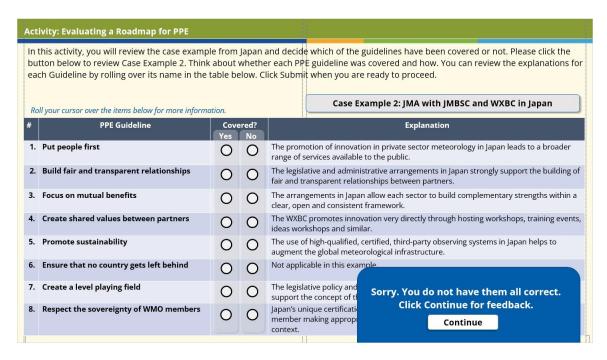
#### rollover 8 (Slide Layer)



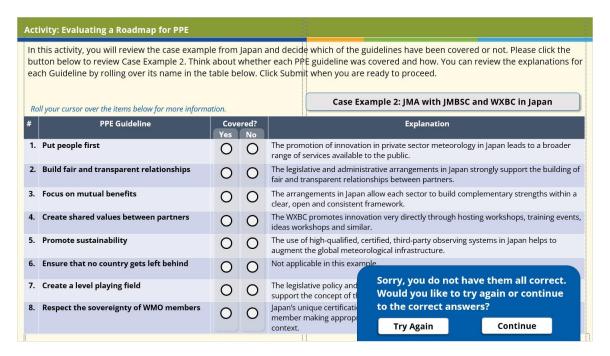
#### **Correct (Slide Layer)**



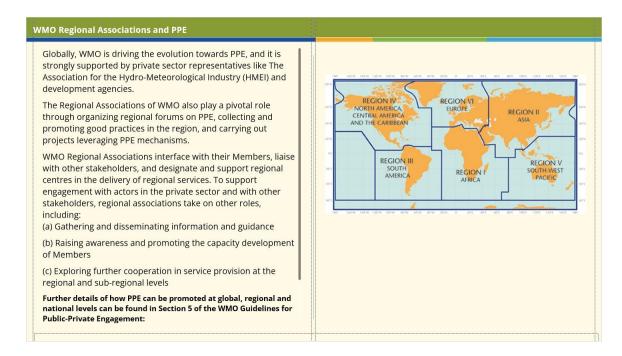
#### Incorrect (Slide Layer)



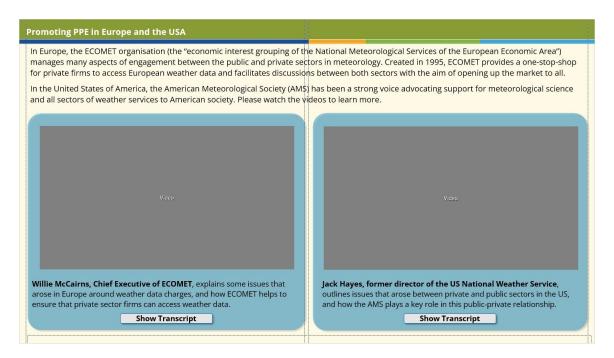
#### Try Again (Slide Layer)



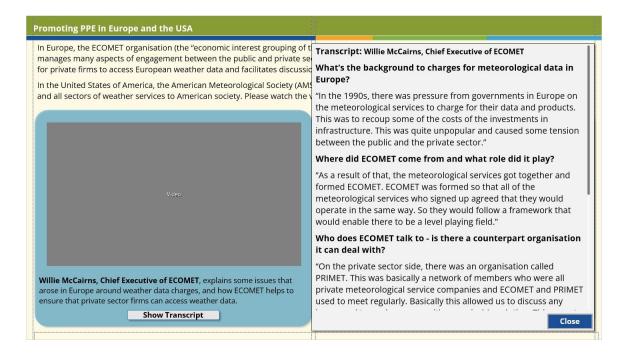
#### 1.11 WMO Regional Associations and PPE



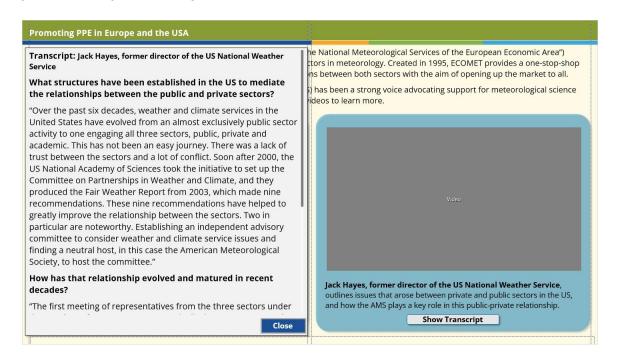
## 1.12 Promoting PPE in Europe and the USA



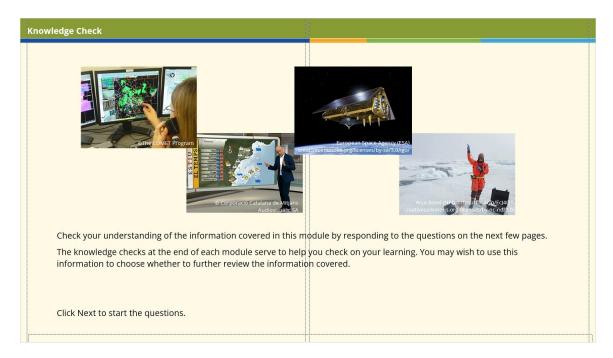
#### willie-transcript (Slide Layer)



#### jack-transcript (Slide Layer)

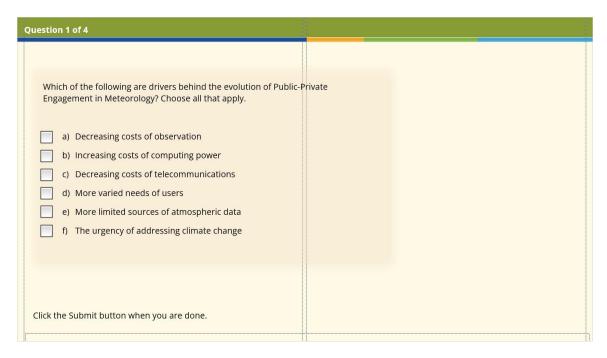


## 1.13 Knowledge Check



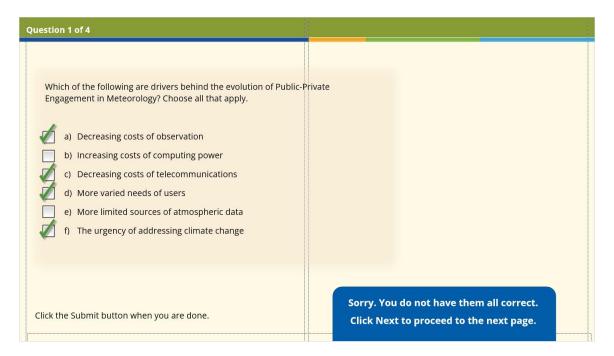
#### 1.14 Question 1

(Pick Many, 10 points, 1 attempt permitted)

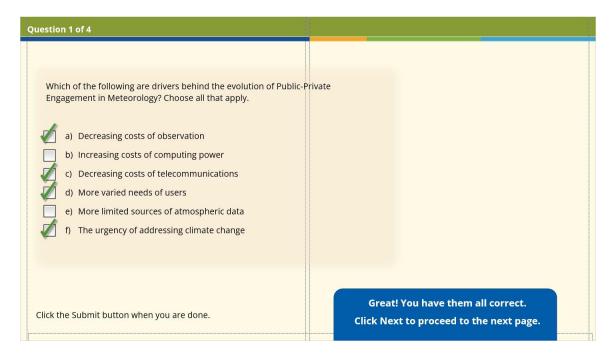


Correct	Choice
Х	Check Box 11
	Check Box 2 1
Х	Check Box 3 1
Х	Check Box 4 1
	Check Box 5
Х	Check Box 6

## **Incorrect (Slide Layer)**

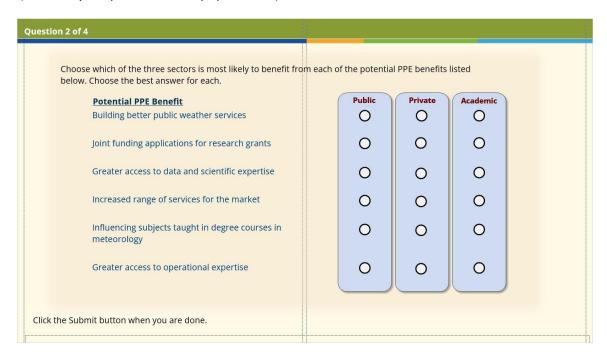


## **Correct (Slide Layer)**



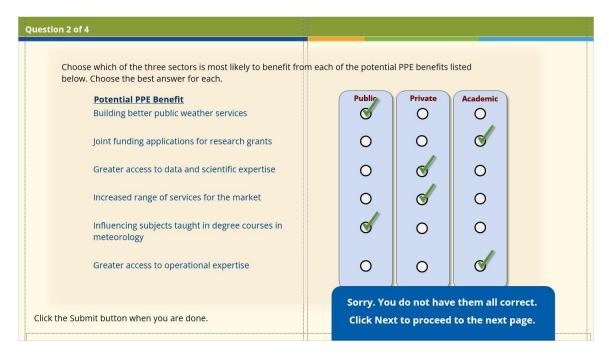
## 1.15 Question 2

(Pick Many, 10 points, 1 attempt permitted)

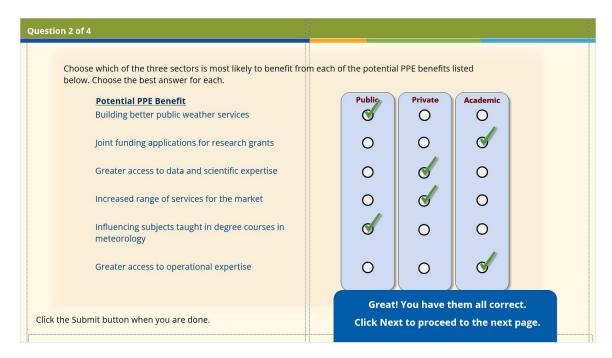


Correct	Choice
Х	Q1-1
	Q1-2
	Q1-3
	Q2-1
	Q2-2
Х	Q2-3
	Q3-1
Х	Q3-2
	Q3-3
	Q4-1
Х	Q4-2
	Q4-3
Х	Q5-1
	Q5-2
	Q5-3
	Q6-1
	Q6-2
Х	Q6-3

## **Incorrect (Slide Layer)**

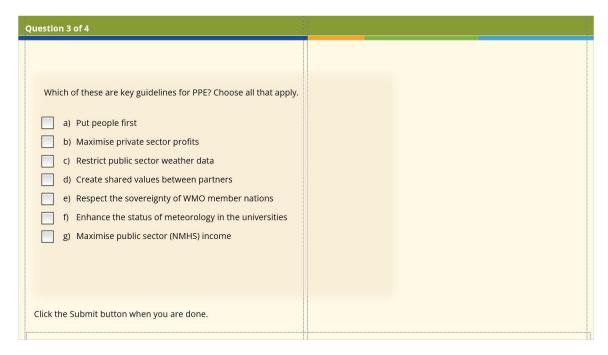


## **Correct (Slide Layer)**



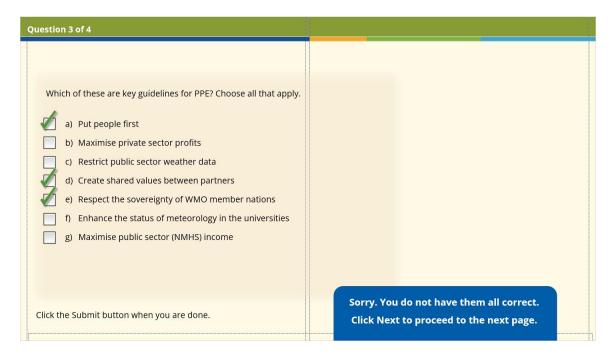
## 1.16 Question 3

(Pick Many, 10 points, 1 attempt permitted)

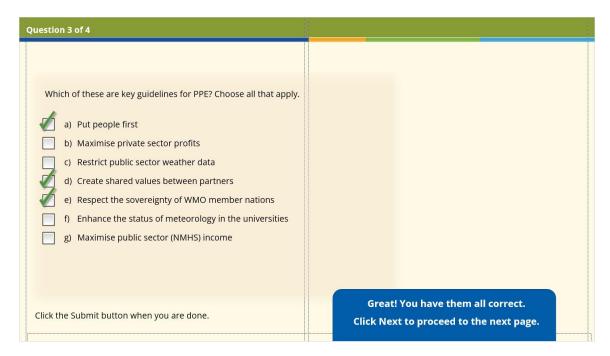


Correct	Choice
X	Check Box 4
	Check Box 3
	Check Box 2
Х	Check Box 1
Х	Check Box 5
	Check Box 6
	Check Box 7

## **Incorrect (Slide Layer)**

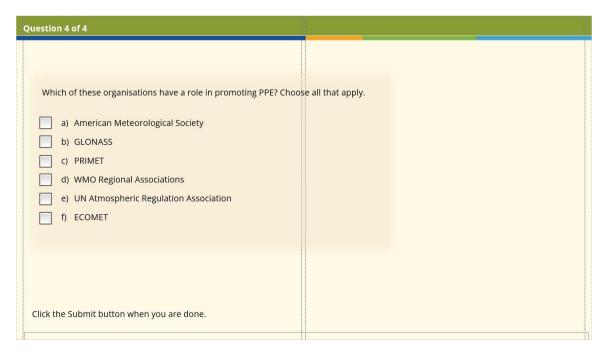


## **Correct (Slide Layer)**



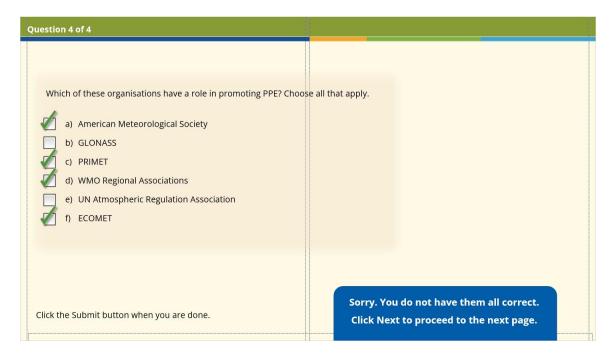
## **1.17 Question 4**

(Pick Many, 10 points, 1 attempt permitted)

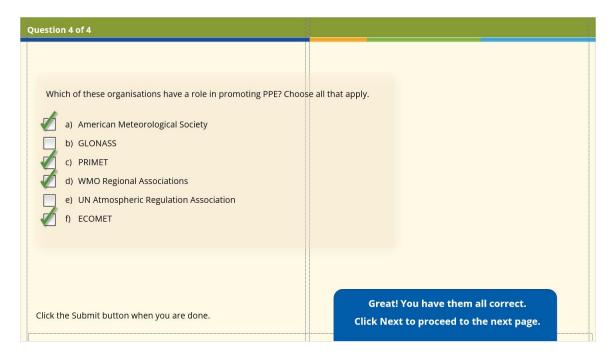


Correct	Choice
Х	Check Box 4
Х	Check Box 3
	Check Box 2
Х	Check Box 1
	Check Box 5
Х	Check Box 6

## **Incorrect (Slide Layer)**



## **Correct (Slide Layer)**



# 1.18 Results: Module 1 Knowledge Check

(Results Slide, 0 points, 1 attempt permitted)

	Results: Module 1	Knowledge Check	
an op infori A mir WMC You r	portunity to help you check your lead mation to choose whether to further nimum score of 70% is required on a b-certified badge of course completion	review the information covered. I knowledge checks in order to receiven. n. your answers, or retry the knowledge	e a
	Your Score:	0%	
	REVIEW	RETRY	

Results for
1.14 Question 1
1.15 Question 2
1.16 Question 3
1.17 Question 4

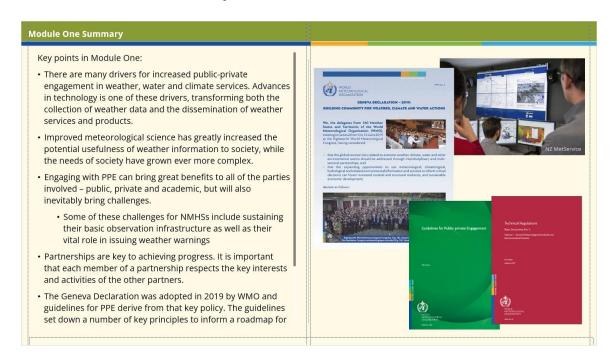
Result slide properties

Passing 70%

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•	~	<b>つ</b> I	r	$^{\circ}$
. 3	1.1			_

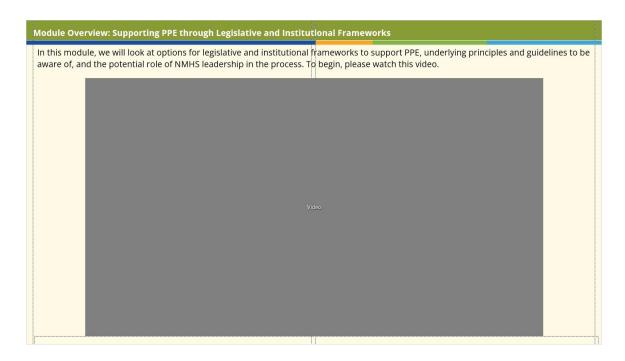
Notes:

## 1.19 Module One Summary



# 2. Module 2: Legislative and Institutional Frameworks for PPE

# 2.1 Module Overview: Supporting PPE through Legislative and Institutional Frameworks

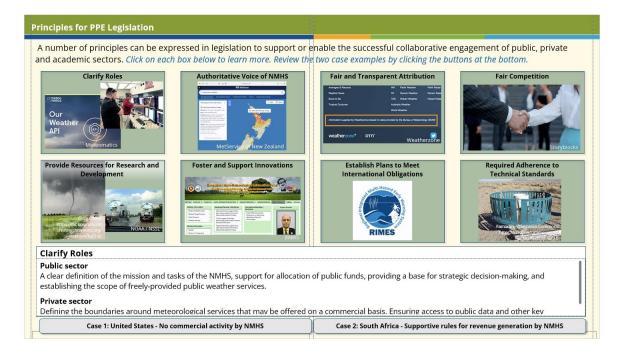


## 2.2 Principles for PPE Legislation



Notes:

#### info1 (Slide Layer)



### info2 (Slide Layer)



#### info3 (Slide Layer)



#### info4 (Slide Layer)



### info5 (Slide Layer)



### info6 (Slide Layer)



### info7 (Slide Layer)



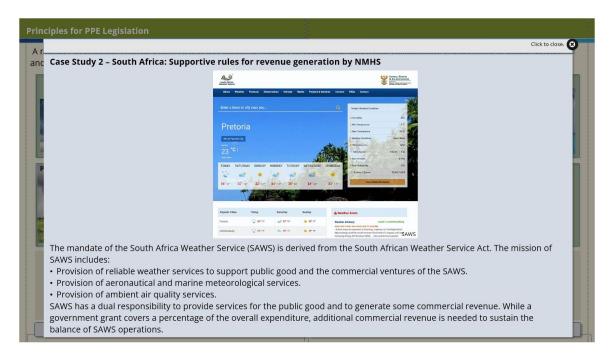
### info8 (Slide Layer)



### zoom1 (Slide Layer)

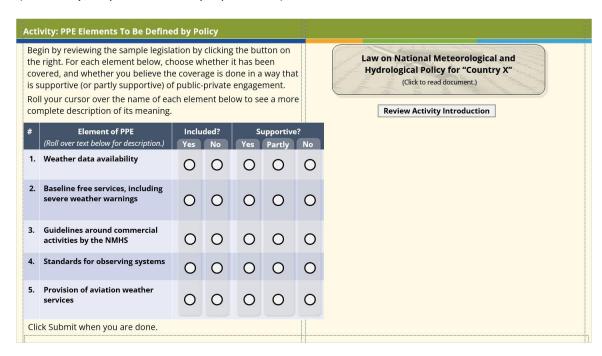


### zoom2 (Slide Layer)



# 2.3 Activity: PPE Elements To Be Defined by Policy

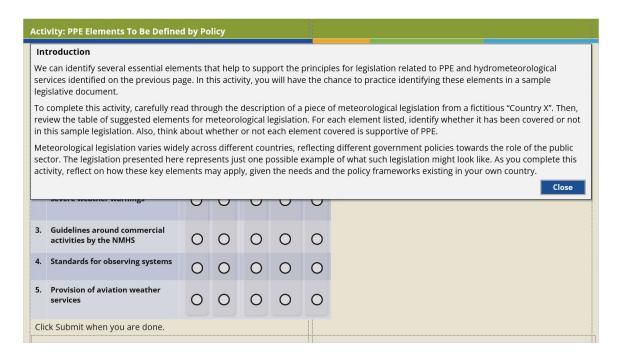
(Pick Many, 10 points, 2 attempts permitted)



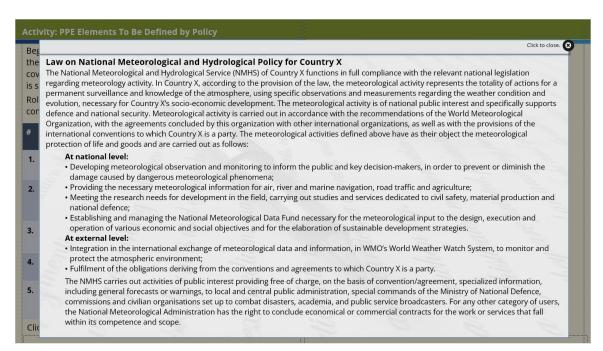
Correct	Choice
Х	q1y
	q1n
Х	q2y
	Q2n
	Q3y
Х	Q3n
X	Q4y
	Q4n
Х	Q5y
	Q5n

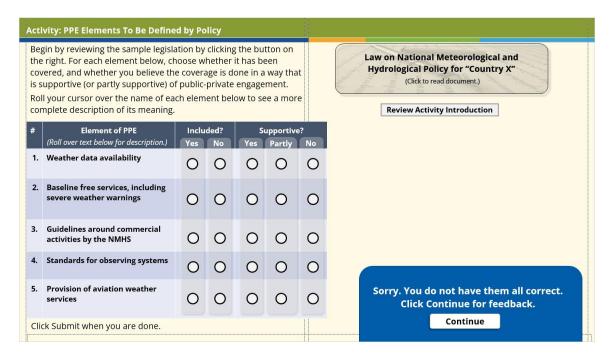
	q1y-support
х	q1part-support
	q2y-support
х	Q2part-support
	Q3y-support
	Q3part-support
Х	Q4y-support
	Q4part-support
Х	Q5y-support
	Q5part-support
	q1n-support
	q2n-support
	Q3n-support
	Q4n-support
	Q5n-support

### intro (Slide Layer)

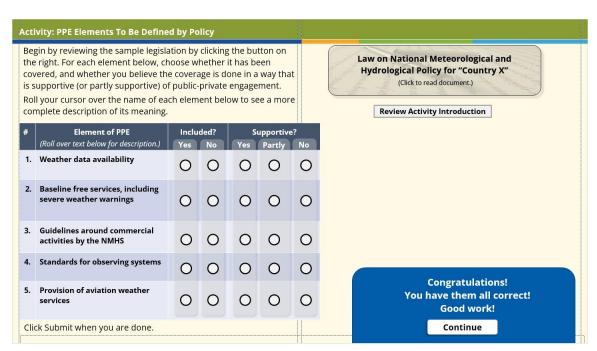


### zoom1 (Slide Layer)

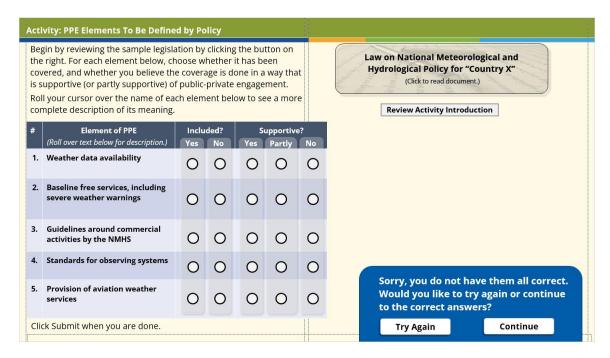




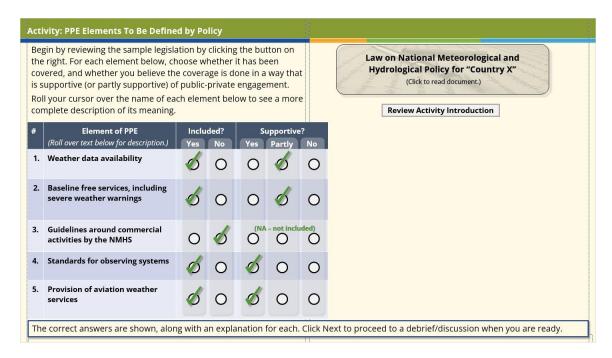
### **Correct (Slide Layer)**



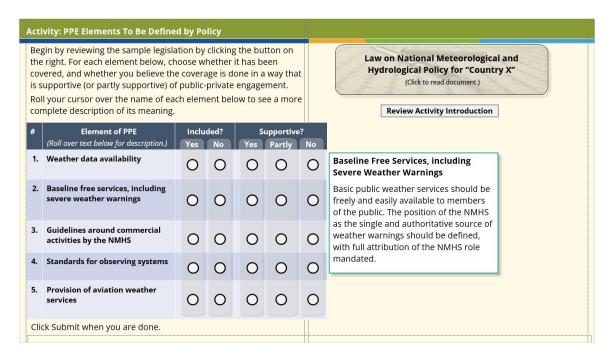
### Try Again (Slide Layer)



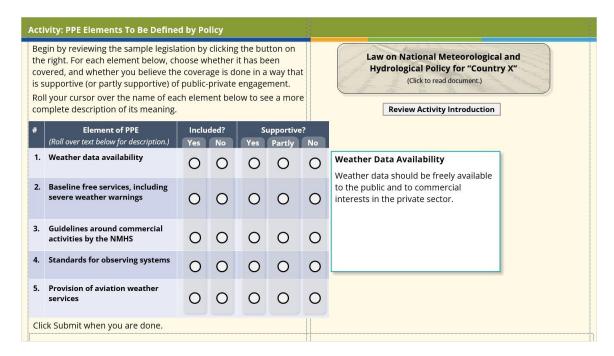
### feedback (Slide Layer)



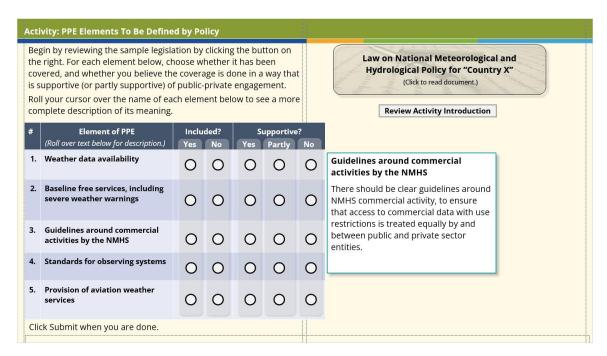
### rollover 2 (Slide Layer)



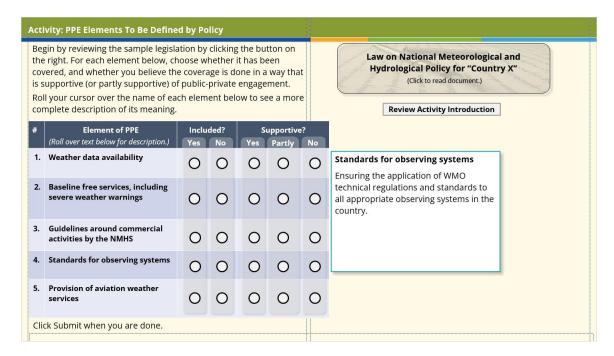
### rollover 1 (Slide Layer)



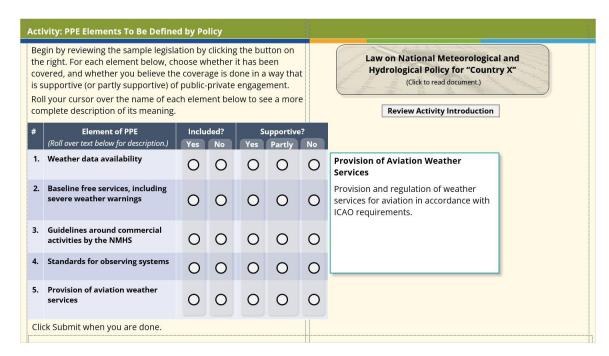
### rollover 3 (Slide Layer)



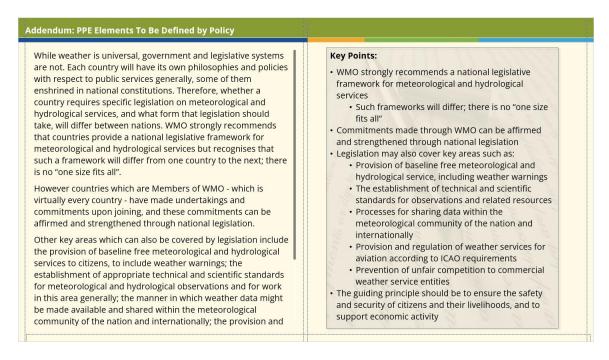
## rollover 4 (Slide Layer)



### rollover 5 (Slide Layer)

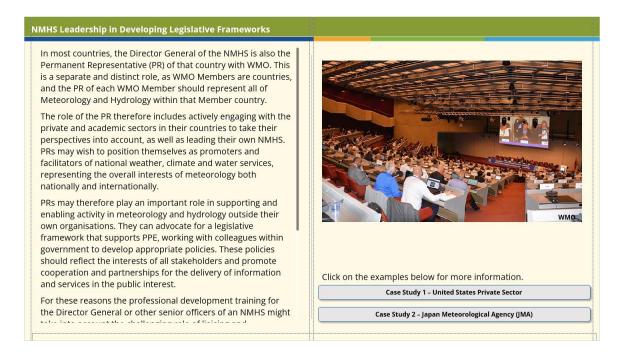


# 2.4 Addendum: PPE Elements To Be Defined by Policy

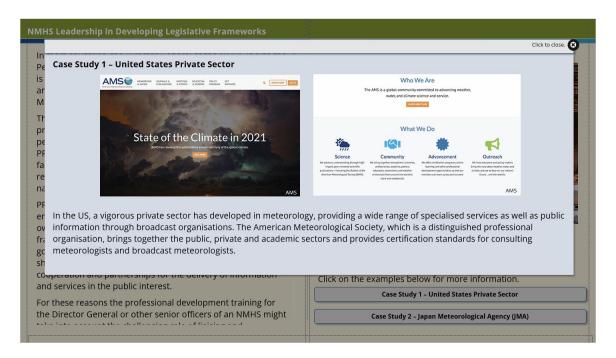


#### Notes:

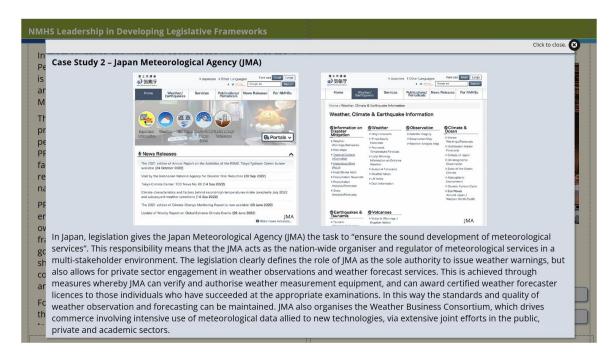
### 2.5 NMHS Leadership in Developing Legislative Frameworks



## zoom1 (Slide Layer)



### zoom2 (Slide Layer)



# 2.6 Knowledge Check

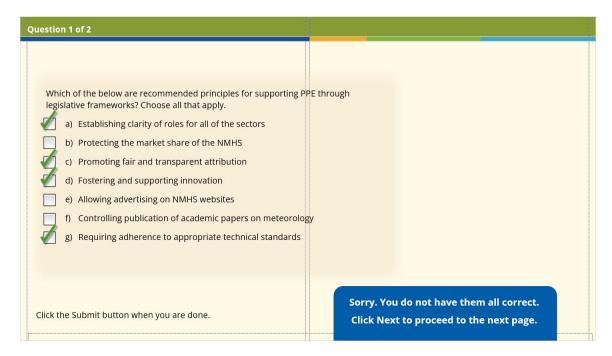


# 2.7 Question 1

(Pick Many, 10 points, 1 attempt permitted)

Which of the below are recommended principles for supporting PPE through legislative frameworks? Choose all that apply.  a) Establishing clarity of roles for all of the sectors  b) Protecting the market share of the NMHS  c) Promoting fair and transparent attribution  d) Fostering and supporting innovation  e) Allowing advertising on NMHS websites
f) Controlling publication of academic papers on meteorology  g) Requiring adherence to appropriate technical standards
Click the Submit button when you are done.

Correct	Choice
Х	Check Box 1
	Check Box 2
Х	Check Box 3
Х	Check Box 4
	Check Box 5
	Check Box 6
Х	Check Box 7



## **Correct (Slide Layer)**

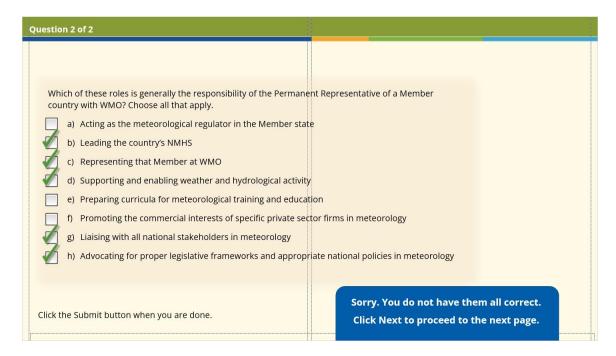


# 2.8 Question 2

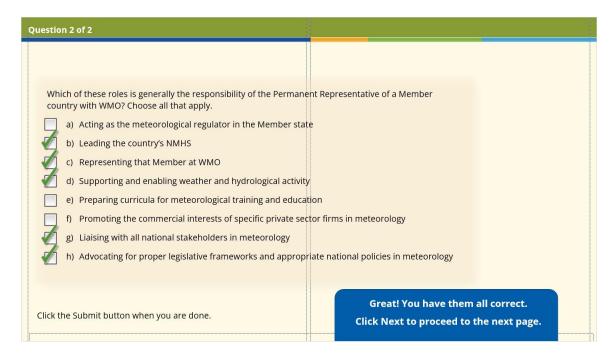
(Pick Many, 10 points, 1 attempt permitted)

Question 2 of 2	
Which of these roles is generally the responsibility of the Permanent Representative of a Member country with WMO? Choose all that apply.	
a) Acting as the meteorological regulator in the Member state	
b) Leading the country's NMHS	
c) Representing that Member at WMO	
d) Supporting and enabling weather and hydrological activity	
e) Preparing curricula for meteorological training and education	
f) Promoting the commercial interests of specific private sector firms in meteorology	
g) Liaising with all national stakeholders in meteorology	
h) Advocating for proper legislative frameworks and appropriate national policies in meteorology	
Click the Submit button when you are done.	

Correct	Choice
	Check Box 1
Х	Check Box 2
Х	Check Box 3
Х	Check Box 4
	Check Box 5
	Check Box 6
Х	Check Box 7
Х	Check Box 8



### **Correct (Slide Layer)**



# 2.9 Results: Module 2 Knowledge Check

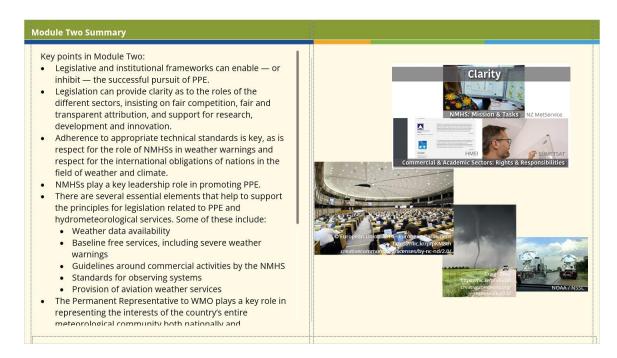
(Results Slide, 0 points, 1 attempt permitted)

Results: Module 2	Knowledge Check
WMO-certified badge of course completi You may use the buttons below to review	arning. You may wish to use this r review the information covered. all knowledge checks in order to receive a on. v your answers, or retry the knowledge
check. Or you may click Next to proceed	to the module summary.
Your Score:	0%
REVIEW	RETRY

Results for			
2.7 Question 1			
2.8 Question 2			
Result slide properties			
Passing	70%		
Score			
Passing	70%		

### Notes:

## 2.10 Module Two Summary

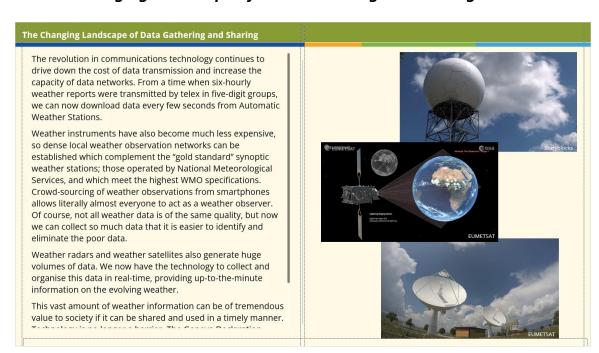


# 3. Module 3: Data Sharing

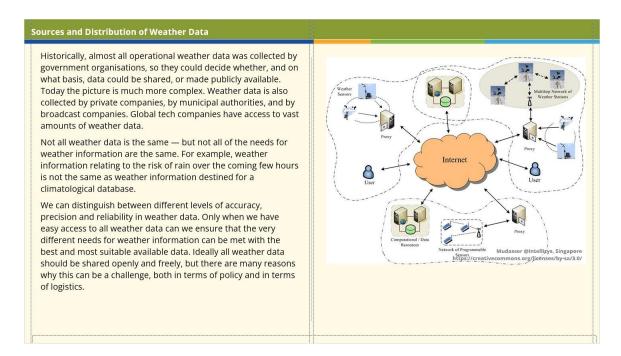
### 3.1 Module Overview: Data Sharing



# 3.2 The Changing Landscape of Data Gathering and Sharing



### 3.3 Sources and Distribution of Weather Data



## 3.4 Activity: Differing Needs, Concerns and Perspectives

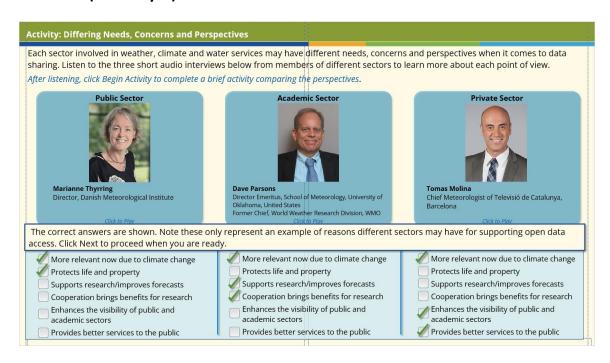
(Pick Many, 10 points, 2 attempts permitted)



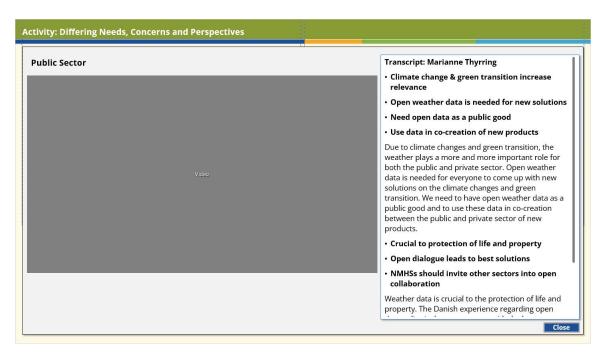
Correct	Choice
Х	pub1
Х	pub2
	pub3
	pub4
	pub5
	pub6
	aca1
	aca2
Х	aca3
Х	aca4
	aca5
	aca6
	priv1
	priv2
	priv3
	priv4
Х	priv5
Х	priv6

Ν	otes	
1.4		•

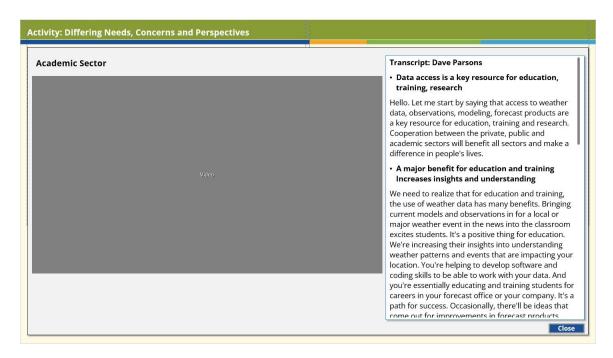
### feedback (Slide Layer)



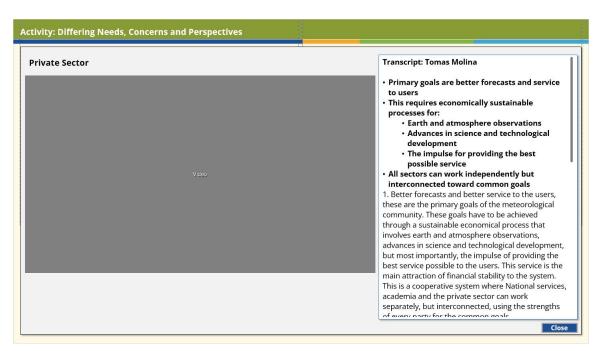
### video1 (Slide Layer)



### video2 (Slide Layer)

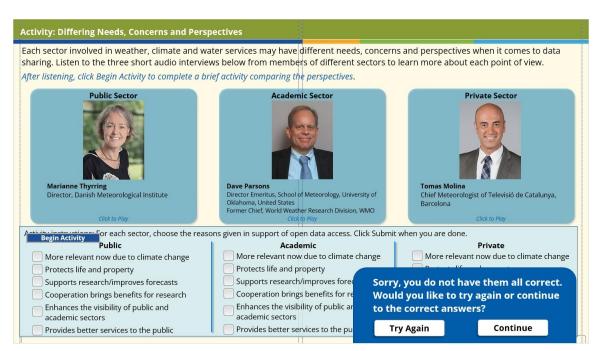


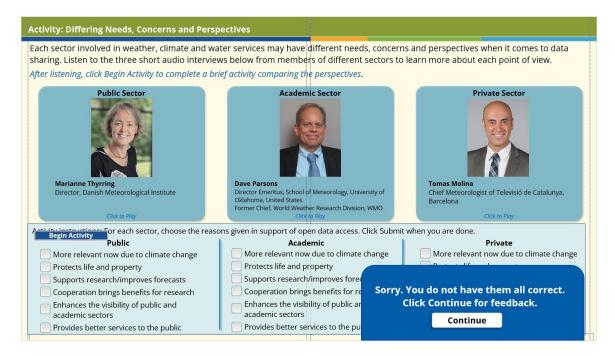
### video3 (Slide Layer)



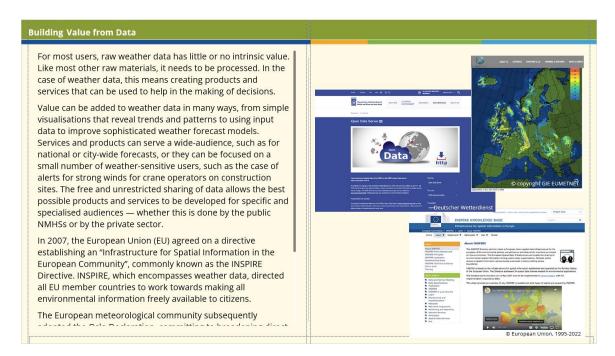


### Try Again (Slide Layer)

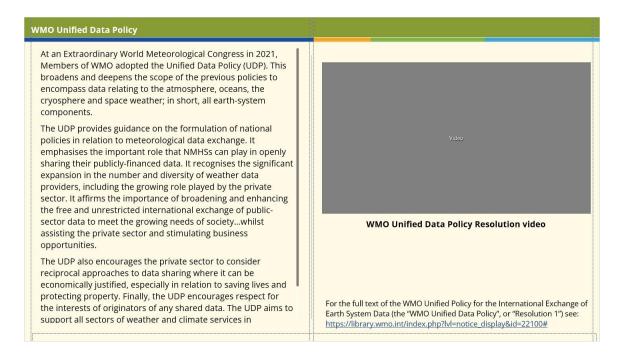




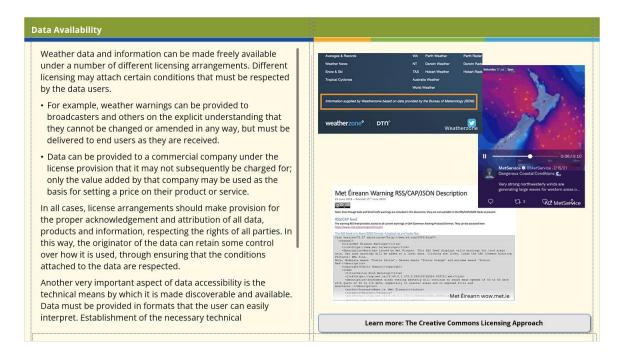
### 3.5 Building Value from Data



### 3.6 WMO Unified Data Policy

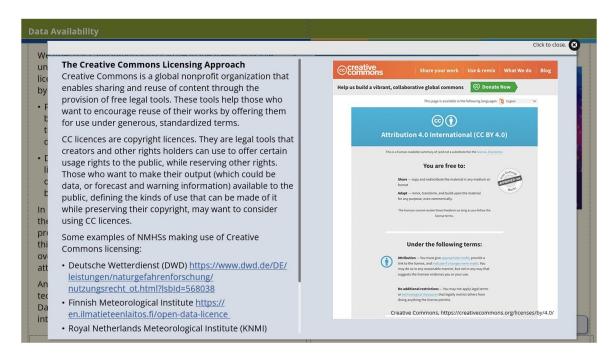


### 3.7 Data Availability



#### Notes:

### zoom1 (Slide Layer)

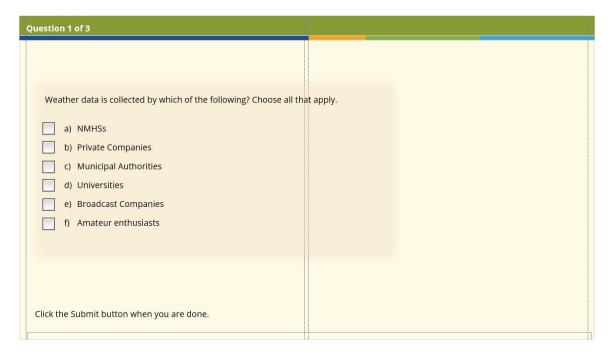


### 3.8 Knowledge Check

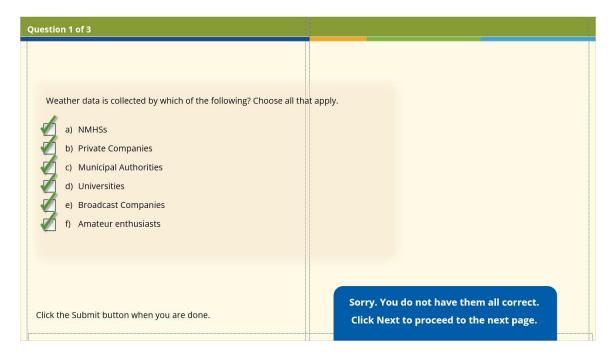


# 3.9 Question 1

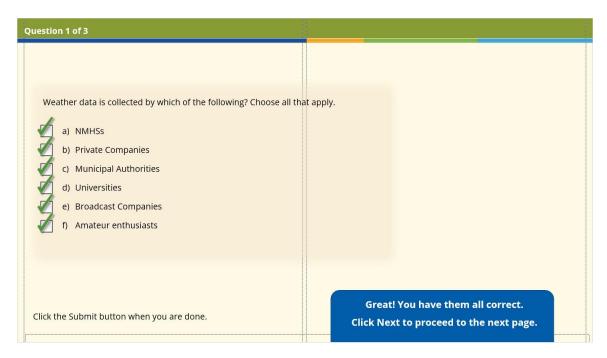
(Pick Many, 10 points, 1 attempt permitted)



Correct	Choice
Х	Check Box 1
Х	Check Box 2
Х	Check Box 3
Х	Check Box 4
Х	Check Box 5
Х	Check Box 6

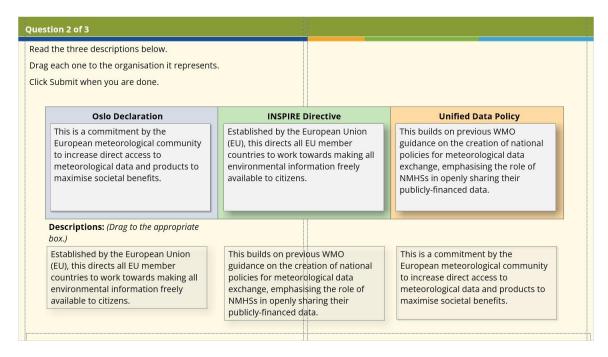


# **Correct (Slide Layer)**



## 3.10 Question 2

(Drag and Drop, 10 points, 1 attempt permitted)



Drag Item	Drop Target
Established by the European Union (EU), this directs all EU member countries to work towards making all environmental information freely available to citizens.	dropzone2
This is a commitment by the European meteorological community to increase direct access to meteorological data and products to maximise societal benefits.	dropzone1
This builds on previous WMO guidance on the creation of national policies for meteorological data exchange, emphasising the role of NMHSs in openly sharing their publicly-financed data.	dropzone3

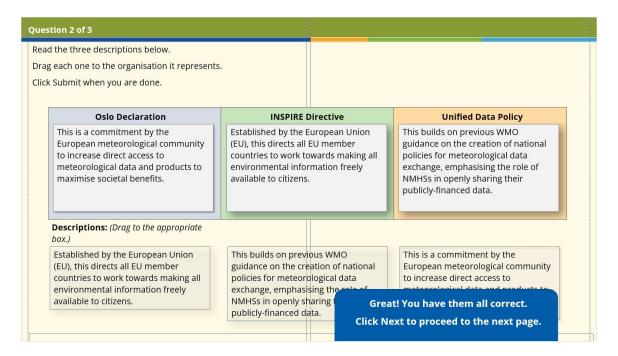
Drag and drop properties

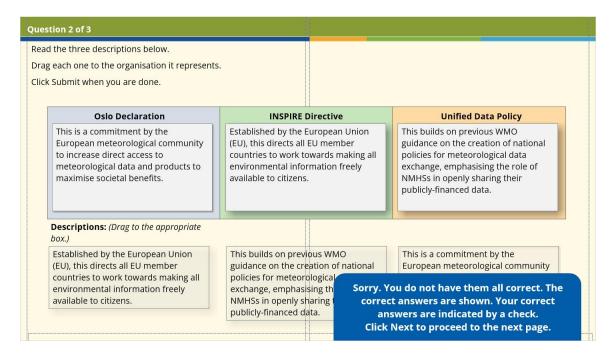
Snap dropped items to drop target (Stack random)

Allow only one item in each drop target

Delay item drop states until interaction is submitted

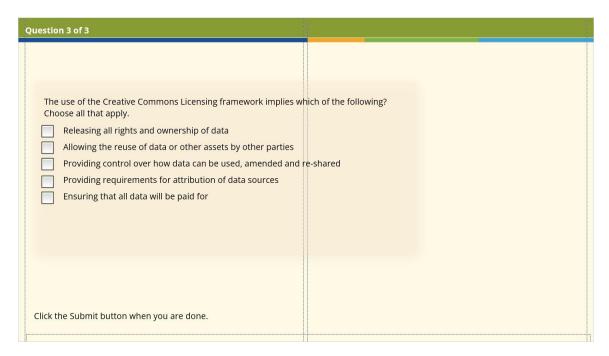
### **Correct (Slide Layer)**



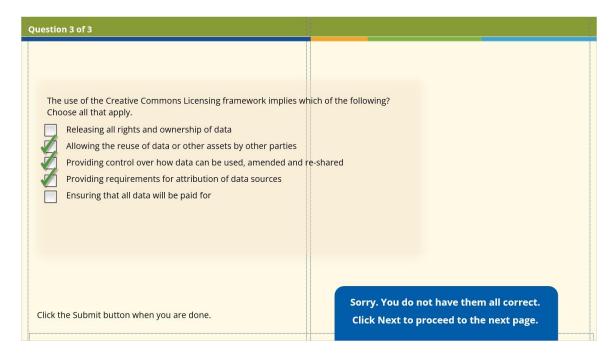


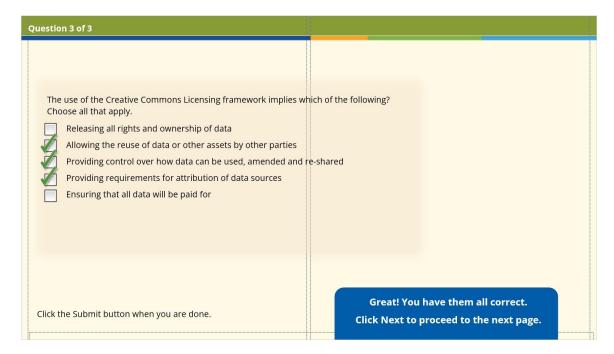
### 3.11 Question 3

(Pick Many, 10 points, 1 attempt permitted)



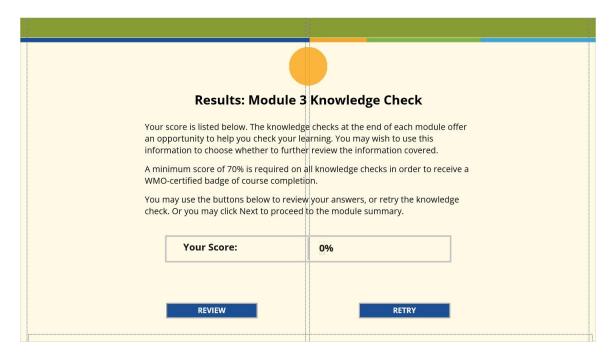
Correct	Choice
	Check Box 1
Х	Check Box 2
Х	Check Box 3
Х	Check Box 4
	Check Box 5





# 3.12 Results: Module 3 Knowledge Check

(Results Slide, 0 points, 1 attempt permitted)



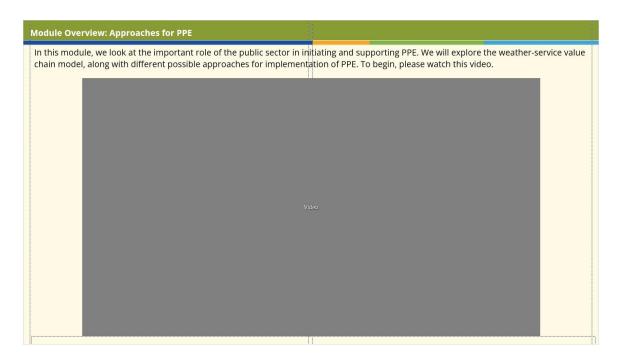
Results for			
3.9 Question 1			
3.10 Question 2			
3.11 Question 3			
Result slide properties			
Passing	70%		
Score			
Notes:			

## 3.13 Module Three Summary

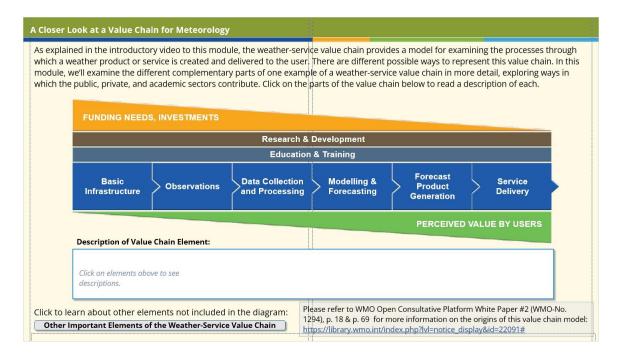


# 4. Module 4: Approaches for PPE

## 4.1 Module Overview: Approaches for PPE

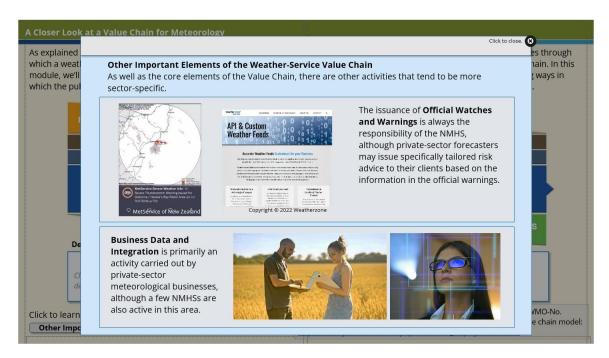


## 4.2 A Closer Look at a Value Chain for Meteorology

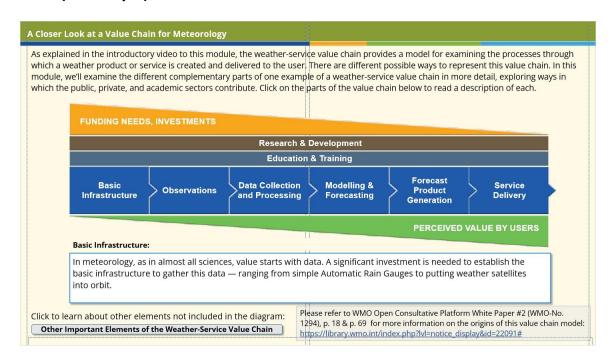


Notes:

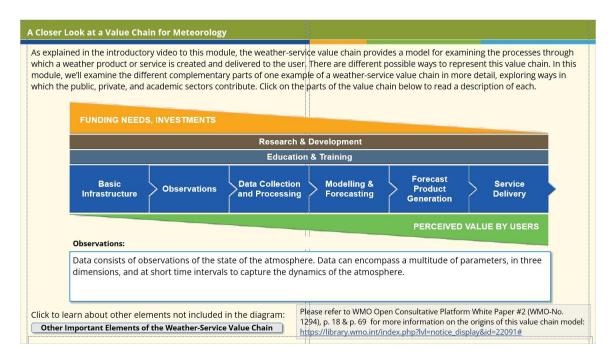
## zoom1 (Slide Layer)



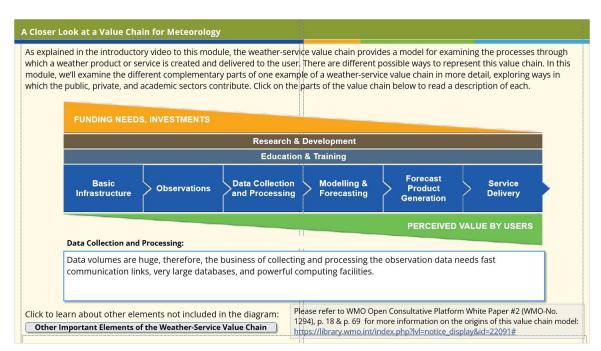
## **Basic (Slide Layer)**



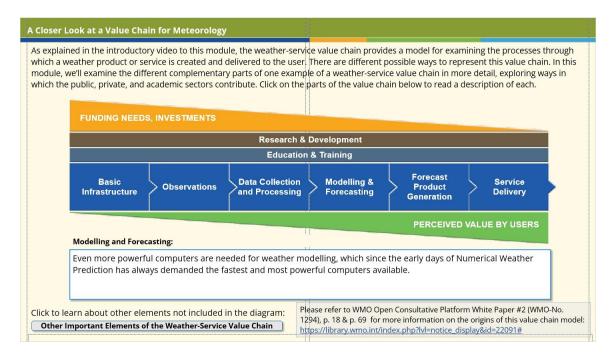
#### **Observations (Slide Layer)**



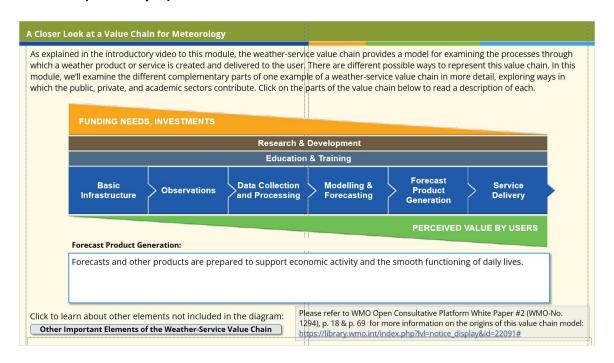
## Data (Slide Layer)



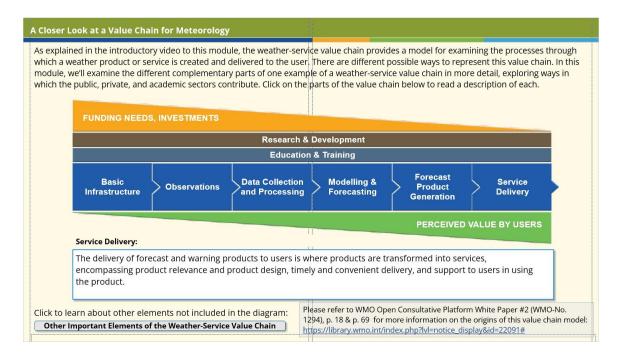
## **Modelling (Slide Layer)**



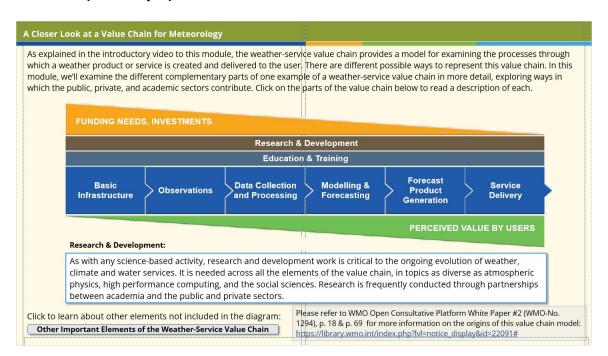
#### Forecast (Slide Layer)



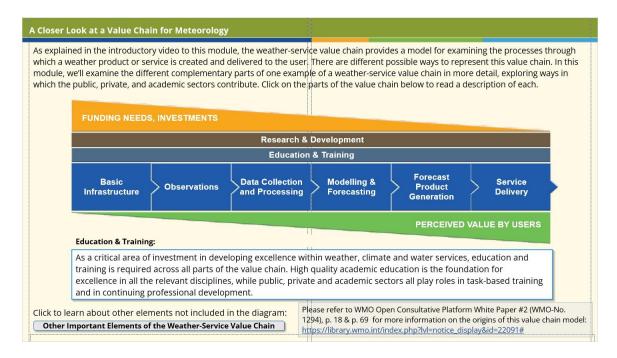
#### Service (Slide Layer)



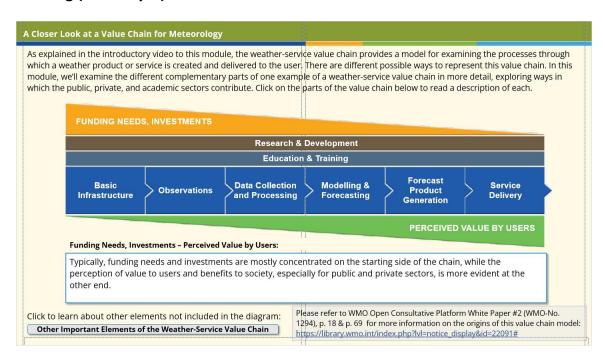
#### Research (Slide Layer)



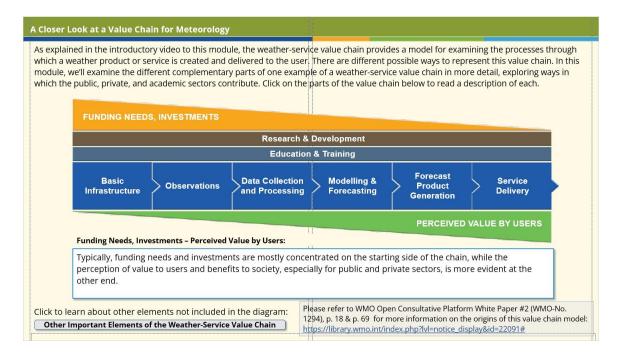
#### **Education (Slide Layer)**



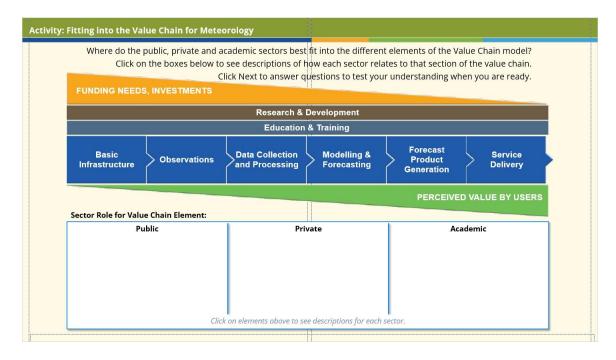
## **Funding (Slide Layer)**



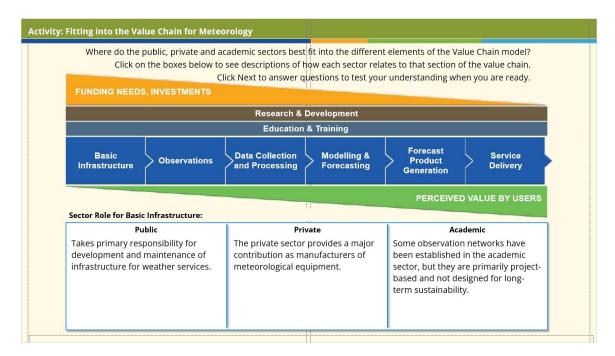
## Perceived (Slide Layer)



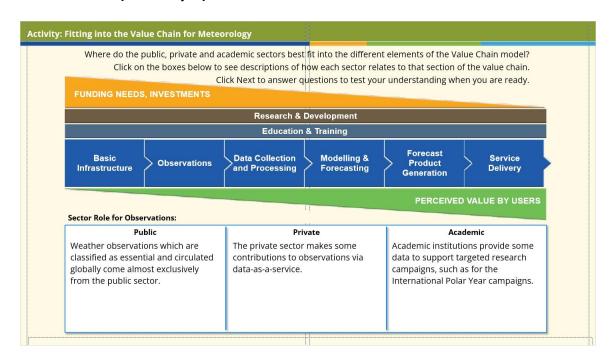
## 4.3 Activity: Fitting into the Value Chain for Meteorology



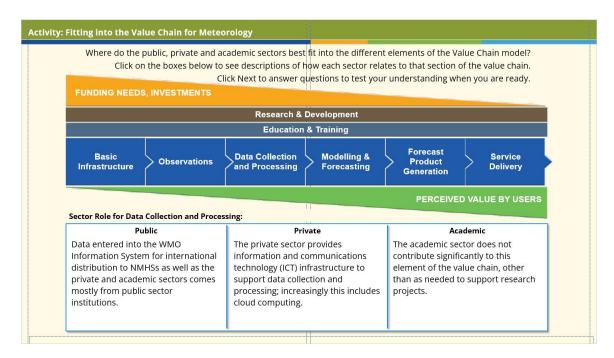
## **Basic (Slide Layer)**



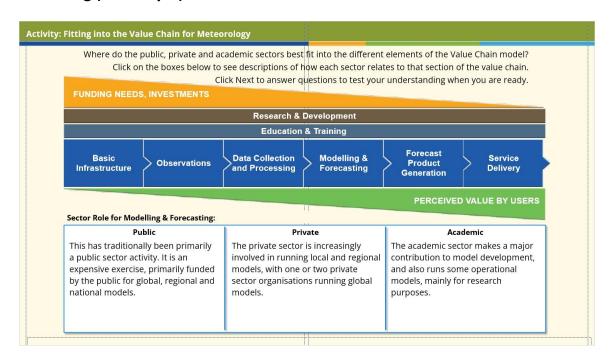
## **Observations (Slide Layer)**



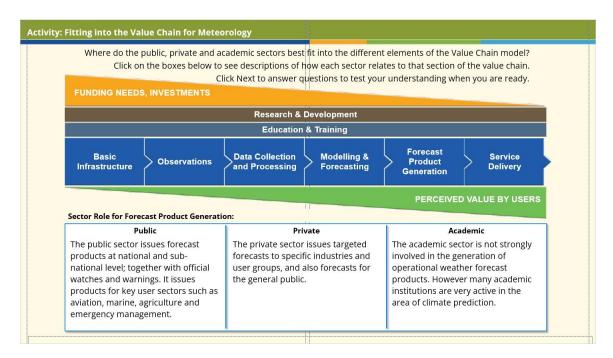
### Data (Slide Layer)



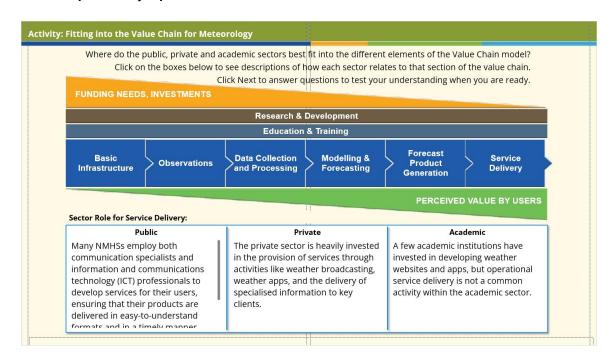
### **Modelling (Slide Layer)**



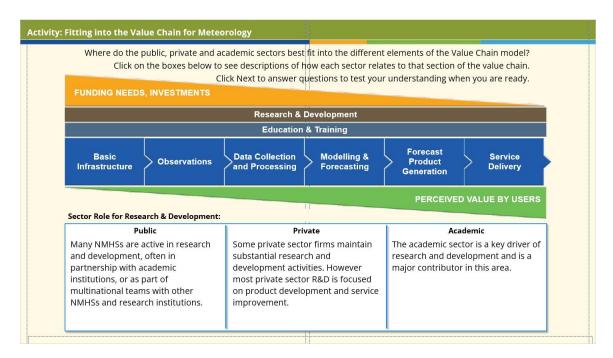
## Forecast (Slide Layer)



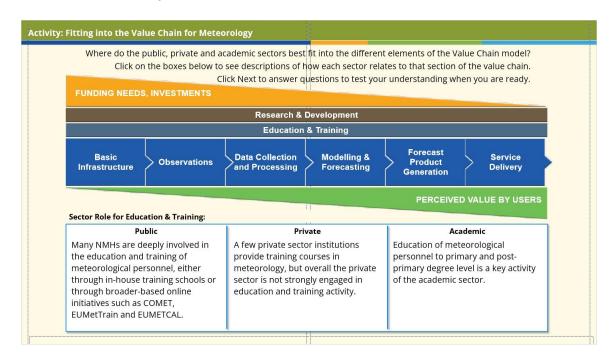
### Service (Slide Layer)



## Research (Slide Layer)

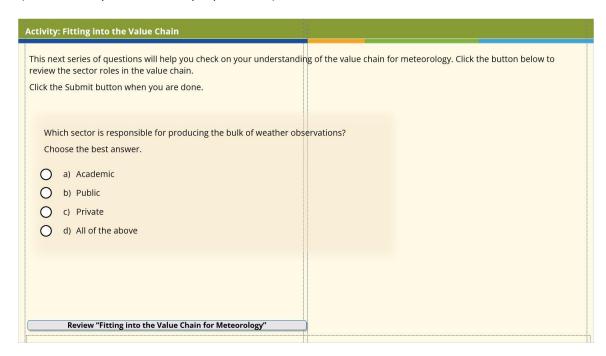


## **Education (Slide Layer)**



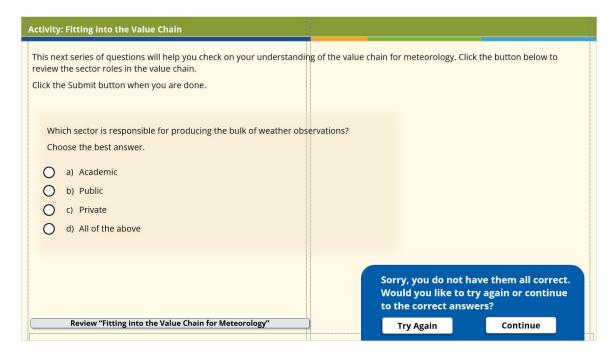
# 4.4 Value Chain Roles Question 1

(Pick One, 10 points, 2 attempts permitted)

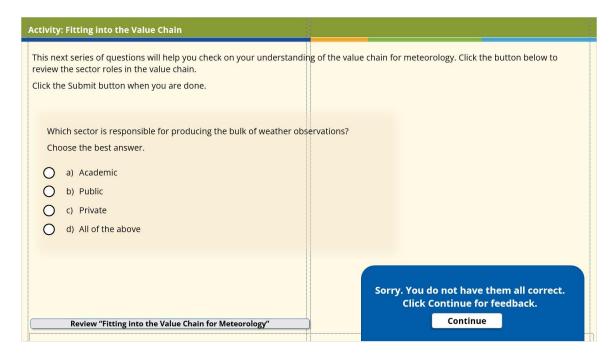


Correct	Choice
	a1
Х	a2
	a3
	a4

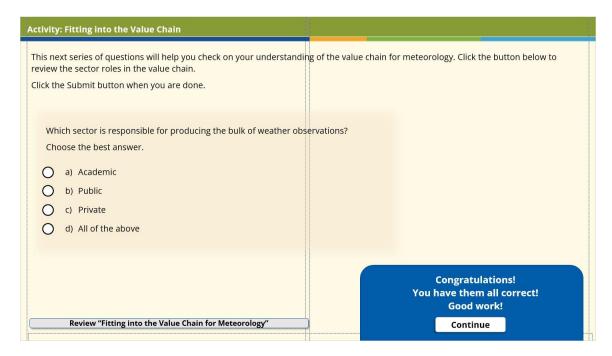
## Try Again (Slide Layer)



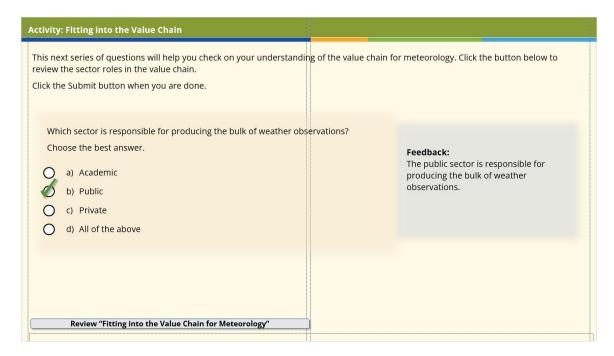
## **Incorrect (Slide Layer)**



## **Correct (Slide Layer)**

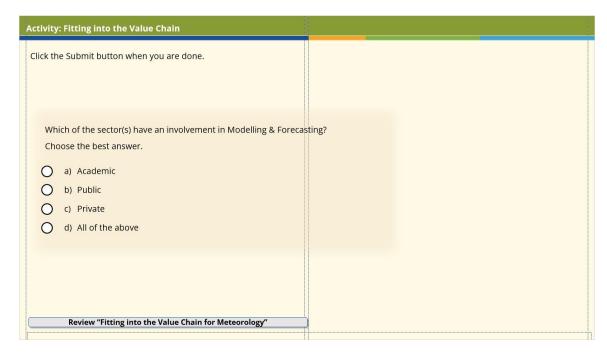


## feedback (Slide Layer)



# 4.5 Value Chain Roles Question 2

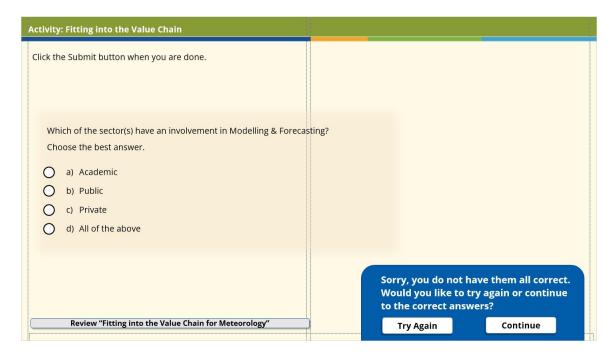
(Pick One, 10 points, 2 attempts permitted)



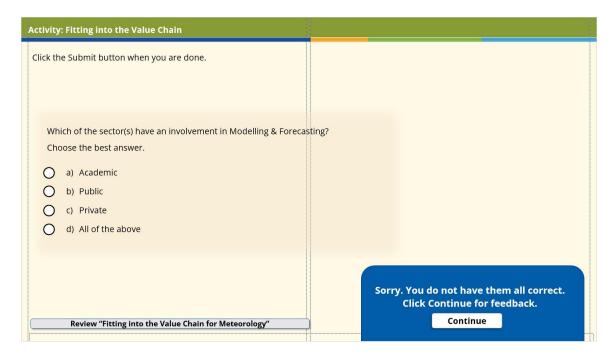
Correct	Choice
	a1
	a2
	a3
Х	a4

**Notes:** 

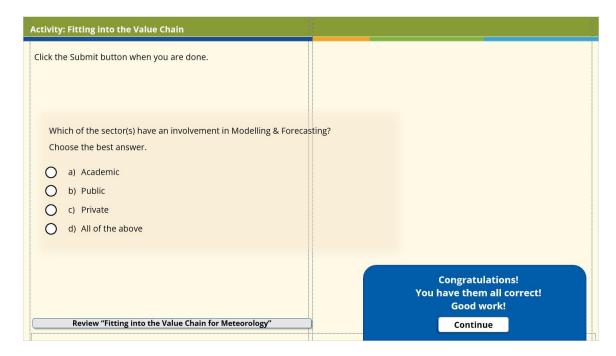
## Try Again (Slide Layer)



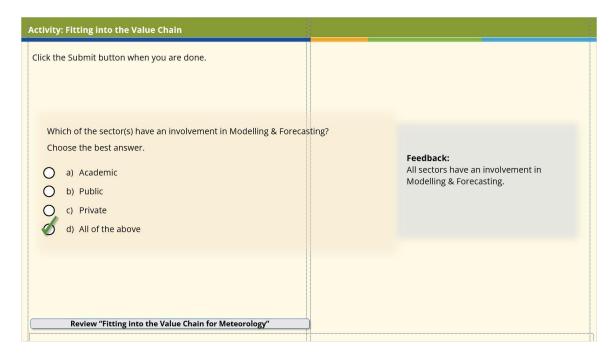
## **Incorrect (Slide Layer)**



## **Correct (Slide Layer)**



## feedback (Slide Layer)



# 4.6 Value Chain Roles Question 3

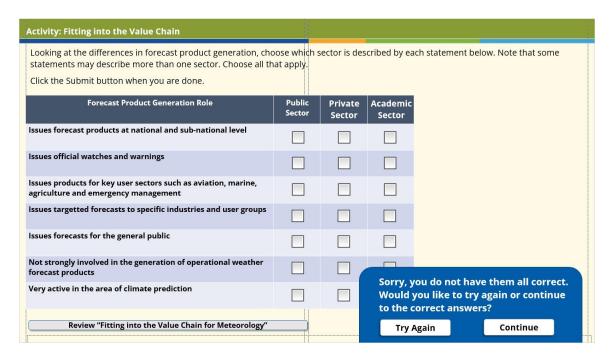
(Pick Many, 10 points, 2 attempts permitted)

Activity: Fitting into the Value Chain					
Looking at the differences in forecast product generation, che statements may describe more than one sector. Choose all the		sector is des	cribed by ea	ch statement b	elow. Note tha
Click the Submit button when you are done.					
Forecast Product Generation Role	Public Sector	Private Sector	Academic Sector		
lssues forecast products at national and sub-national level					
Issues official watches and warnings					
lssues products for key user sectors such as aviation, marine, agriculture and emergency management					
Issues targetted forecasts to specific industries and user groups					
Issues forecasts for the general public					
Not strongly involved in the generation of operational weather forecast products					
Very active in the area of climate prediction					
Review "Fitting into the Value Chain for Meteorology"					

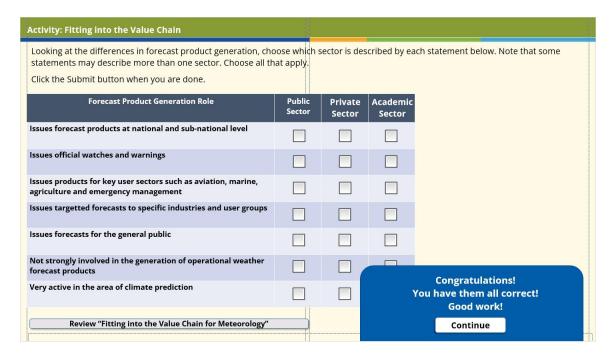
Correct	Choice
Х	a1a
	a1b
	a1c
Х	a2a
	a2b
	a2c
Х	a3a
	a3b
	a3c
	a4a

Х	a4b
	a4c
Х	a5a
Х	a5b
	a5c
	a6a
	a6b
Х	а6с
	a7a
	a7b
Х	a7c

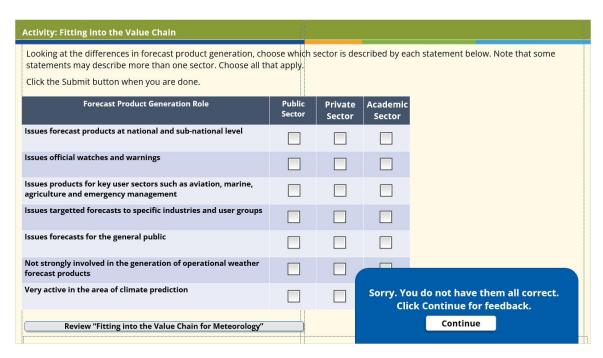
## Try Again (Slide Layer)



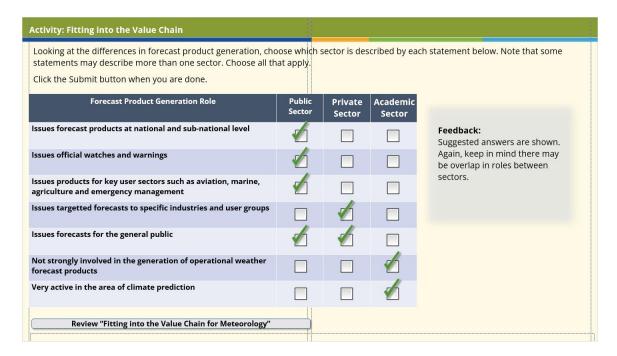
## **Correct (Slide Layer)**



## **Incorrect (Slide Layer)**

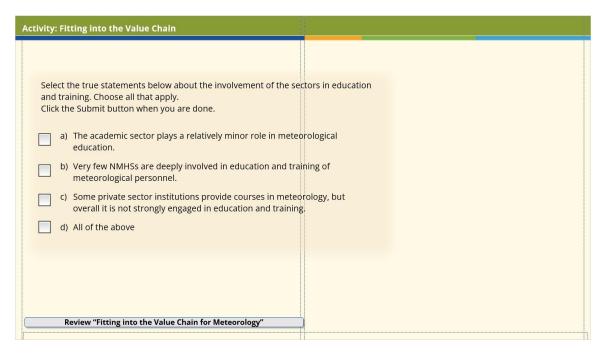


### feedback (Slide Layer)



# 4.7 Value Chain Roles Question 4

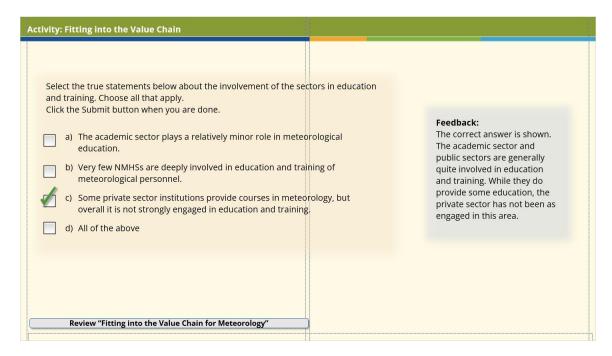
(Pick Many, 10 points, 2 attempts permitted)



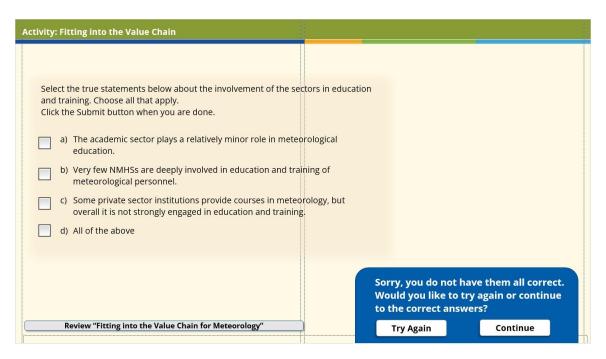
Correct	Choice
	a4
Х	a3
	a2
	a1

Notes:

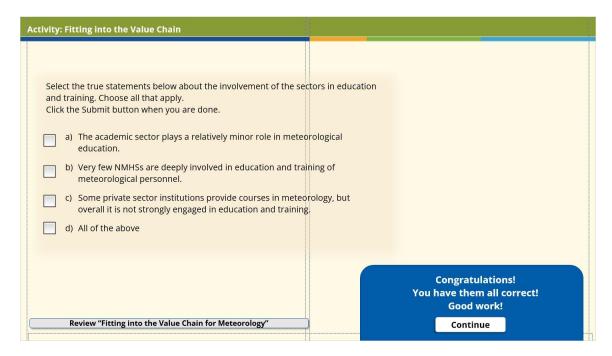
## feedback (Slide Layer)



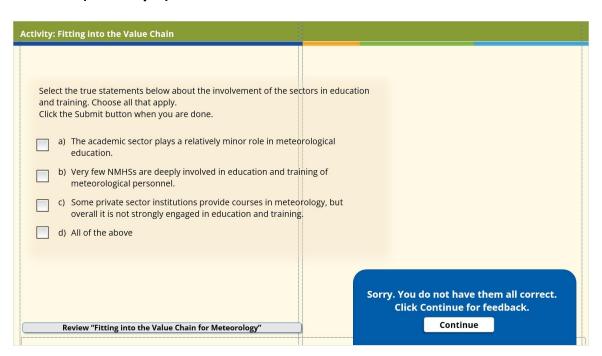
## Try Again (Slide Layer)



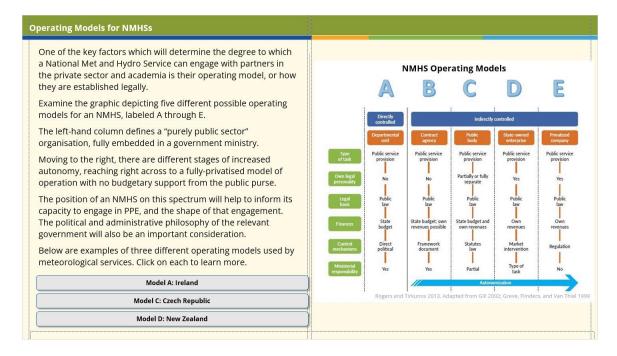
## **Correct (Slide Layer)**



### **Incorrect (Slide Layer)**

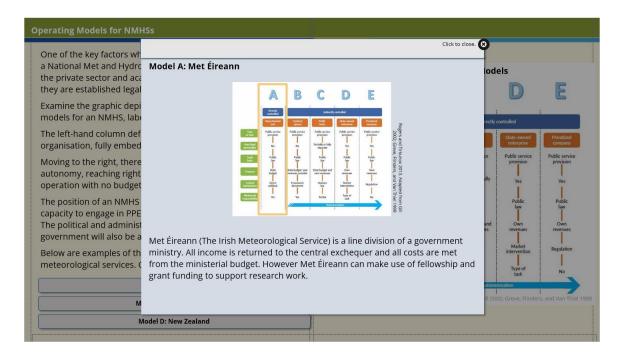


## 4.8 Operating Models for NMHSs

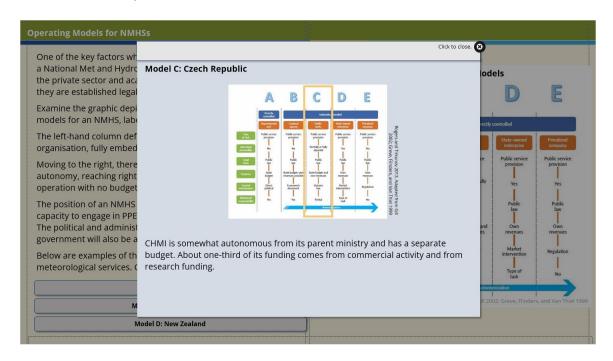


#### Notes:

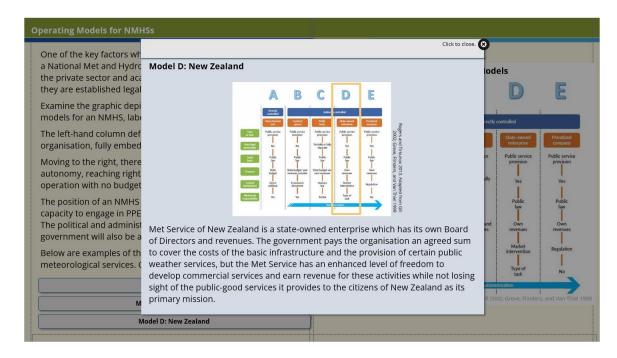
## zoom1 (Slide Layer)



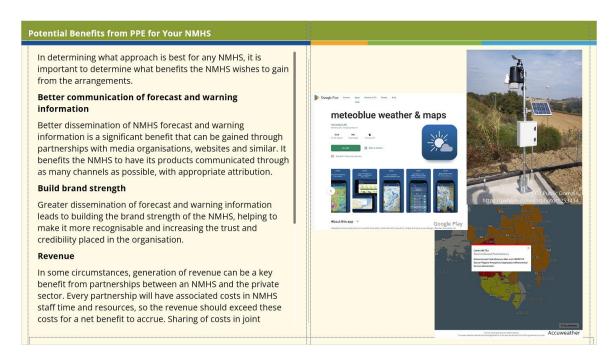
### zoom2 (Slide Layer)



## zoom3 (Slide Layer)

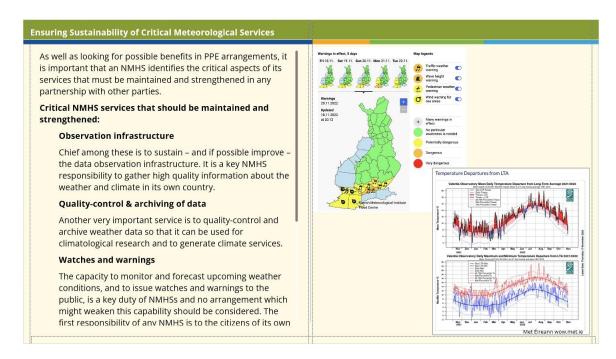


## 4.9 Potential Benefits from PPE for Your NMHS

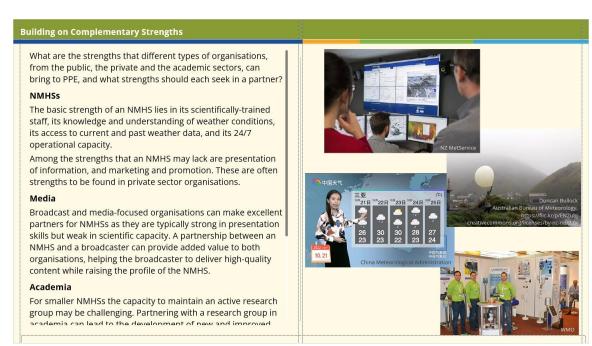


#### Notes:

### 4.10 Ensuring Sustainability of Critical Meteorological Services

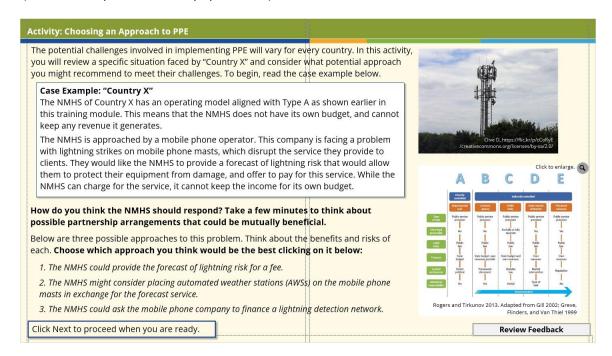


## 4.11 Building on Complementary Strengths



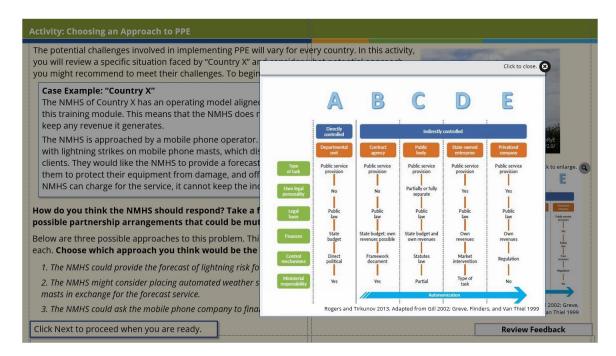
## 4.12 Activity: Choosing an Approach to PPE

(Pick One, 10 points, 1 attempt permitted)

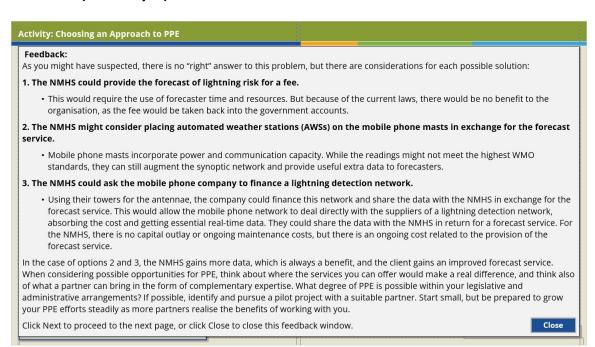


Correct	Choice
	1. The NMHS could provide the forecast of lightning risk for a fee.
	2. The NMHS might consider placing automated weather stations (AWSs) on the mobile phone masts in exchange for the forecast service.
	3. The NMHS could ask the mobile phone company to finance a lightning detection network.

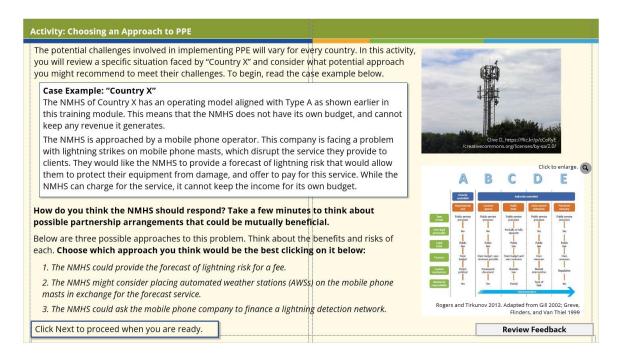
#### zoom1 (Slide Layer)



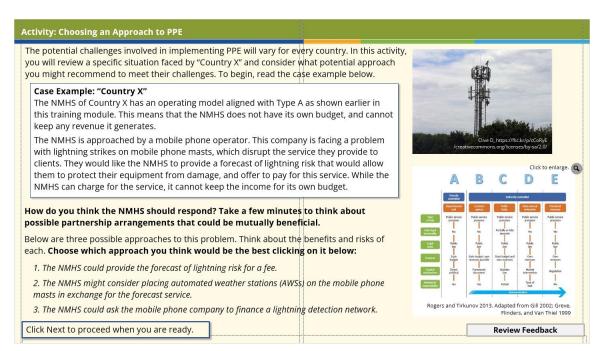
#### feedback (Slide Layer)



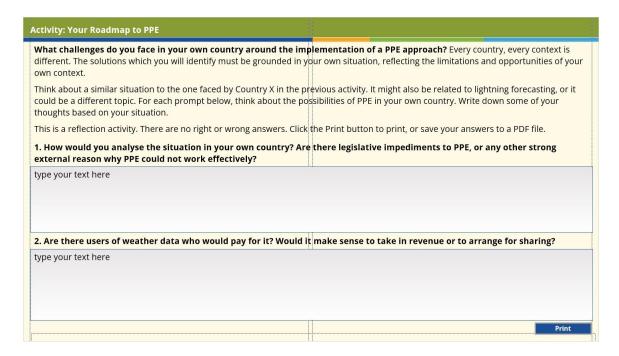
#### **Incorrect (Slide Layer)**



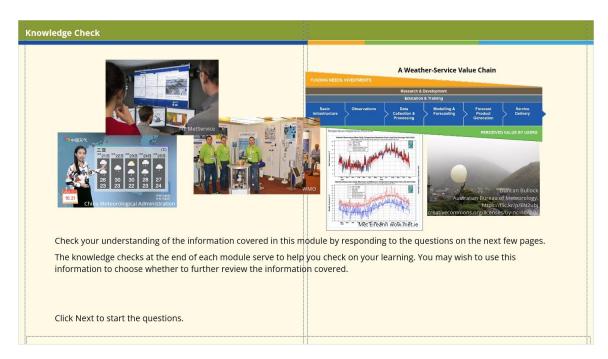
## **Correct (Slide Layer)**



### 4.13 Activity: Your Roadmap to PPE

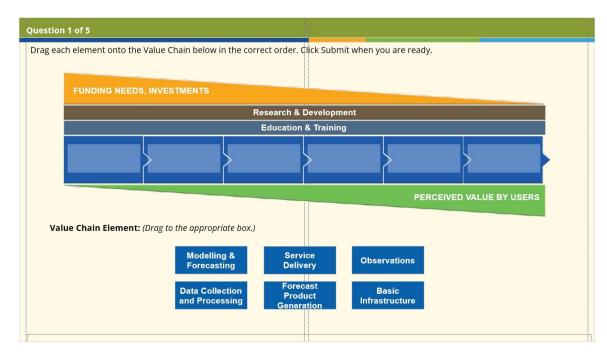


## 4.14 Knowledge Check



## **4.15 Question 1**

(Drag and Drop, 10 points, 1 attempt permitted)



Drag Item	Drop Target	
Basic Infrastructure		
Observations		
Data Collection and Processing		
Modelling & Forecasting		
Forecast Product Generation		
Service Delivery		

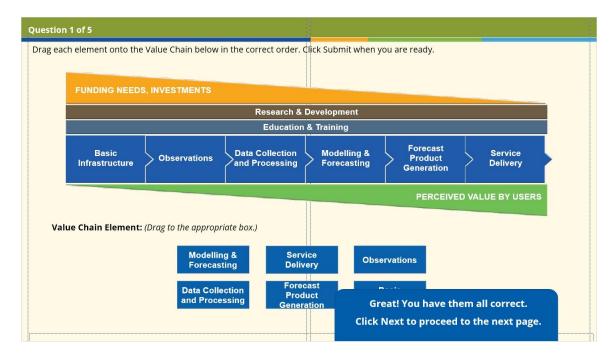
### Drag and drop properties

Snap dropped items to drop target (Stack random)

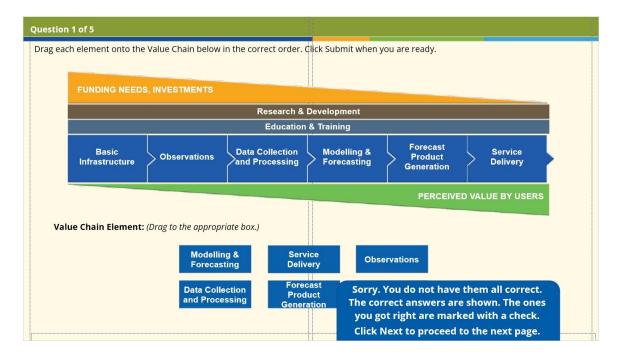
Allow only one item in each drop target

Delay item drop states until interaction is submitted

## **Correct (Slide Layer)**

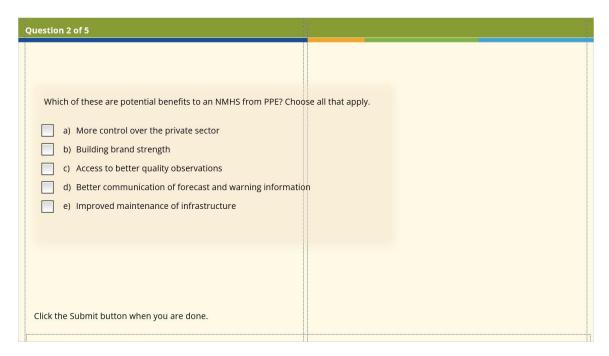


## **Incorrect (Slide Layer)**

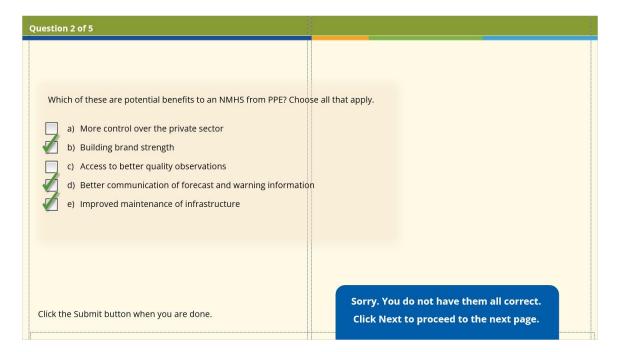


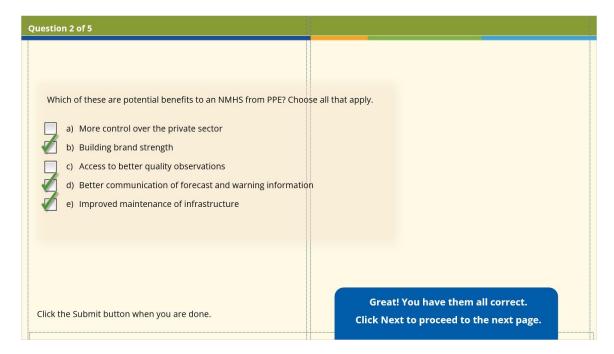
## 4.16 Question 2

(Pick Many, 10 points, 1 attempt permitted)



Correct	Choice
	Check Box 1
Х	Check Box 2
	Check Box 3
Х	Check Box 4
Х	Check Box 5



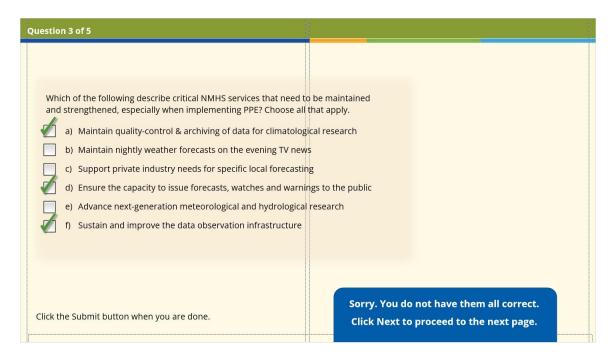


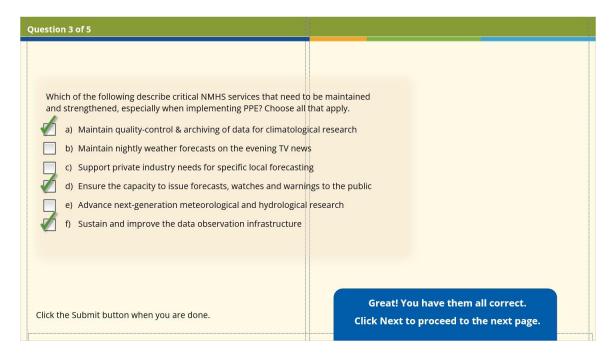
#### **4.17 Question 3**

(Pick Many, 10 points, 1 attempt permitted)



Correct	Choice
Х	Check Box 1
	Check Box 2
	Check Box 3
Х	Check Box 4
	Check Box 5
Х	Check Box 6



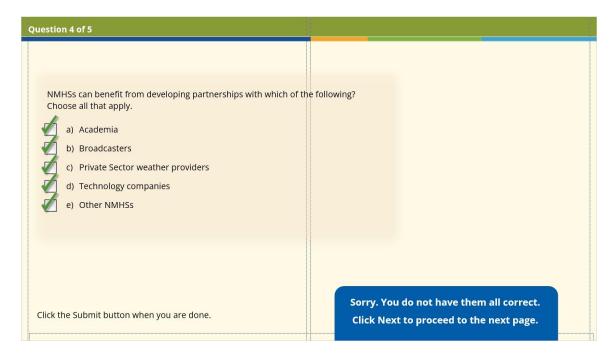


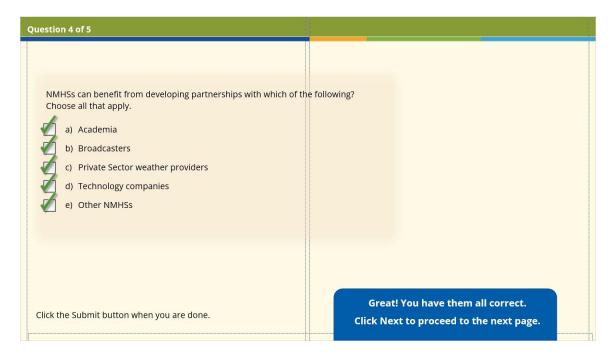
#### 4.18 Question 4

(Pick Many, 10 points, 1 attempt permitted)



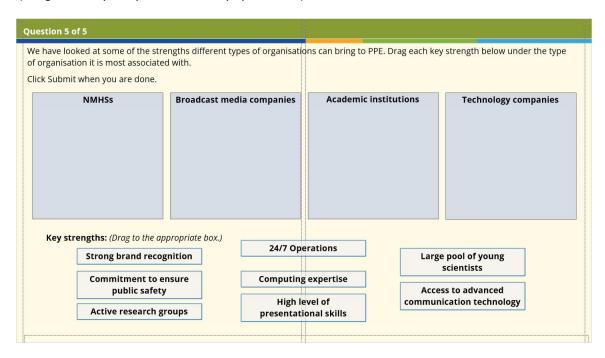
Correct	Choice
Х	Check Box 1
Х	Check Box 2
Х	Check Box 3
Х	Check Box 4
Х	Check Box 5





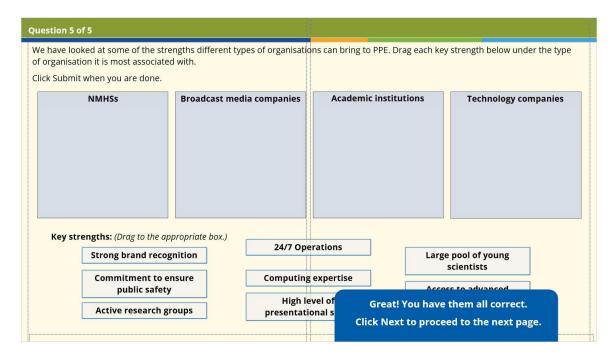
#### **4.19 Question 5**

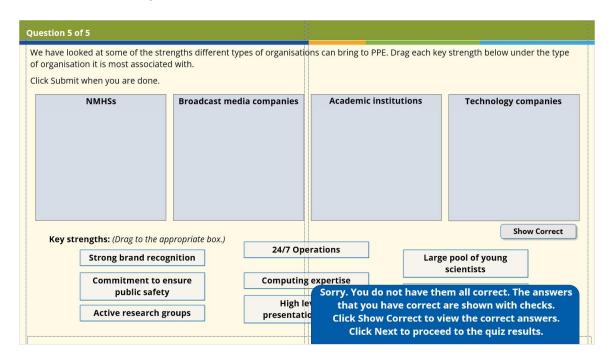
(Drag and Drop, 10 points, 1 attempt permitted)



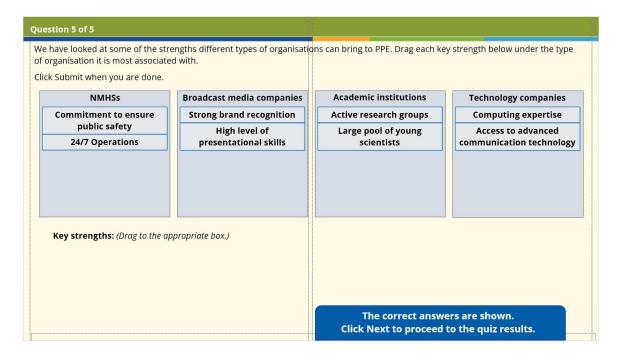
Drag Item	Drop Target
Strong brand recognition	dropzone2
Commitment to ensure public safety	dropzone1
Active research groups	dropzone3
24/7 Operations	dropzone1
Computing expertise	dropzone4
High level of presentational skills	dropzone2
Large pool of young scientists	dropzone3
Access to advanced communication technology	dropzone4

Drag and drop properties		
Snap dropped items to drop target (Tile)		
Delay item drop states until interaction is submitted		



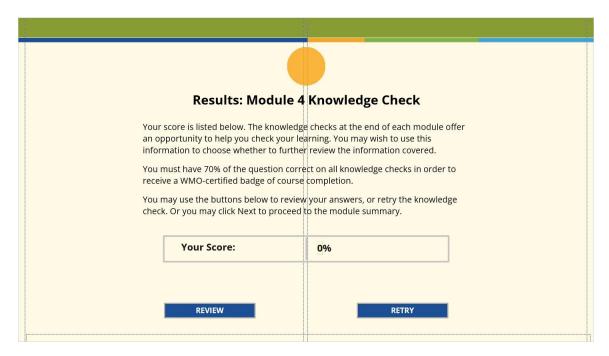


#### final correct (Slide Layer)



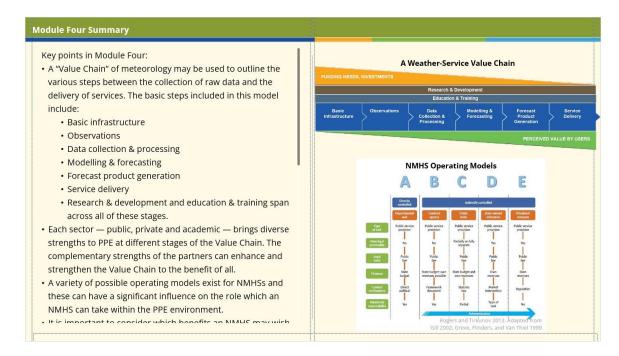
#### 4.20 Results: Module 4 Knowledge Check

(Results Slide, 0 points, 1 attempt permitted)



Results for				
4.15 Question 1				
4.16 Question 2				
4.17 Question 3				
4.18 Question 4				
4.19 Question 5				
Result slide properties				
Passing	70%			
Score				
Notes:				

#### 4.21 Module Four Summary

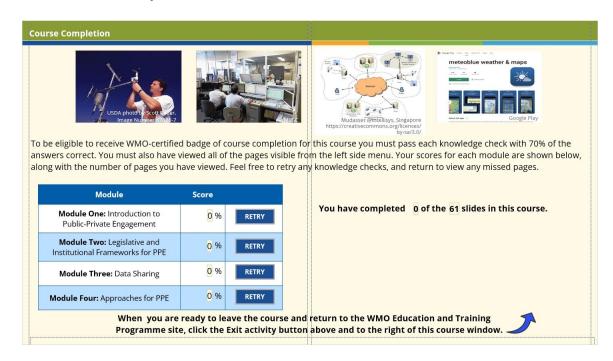


#### 4.22 Course Wrap-up



#### Notes:

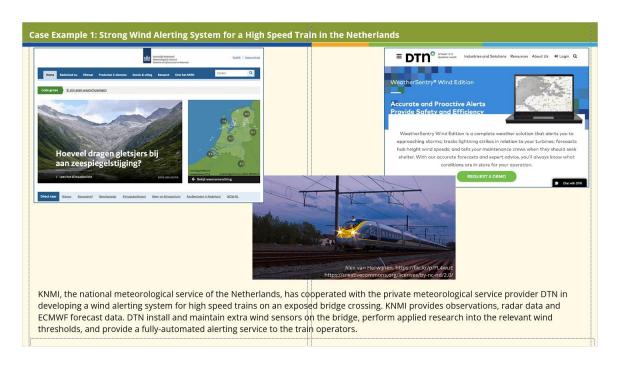
#### 4.23 Course Completion



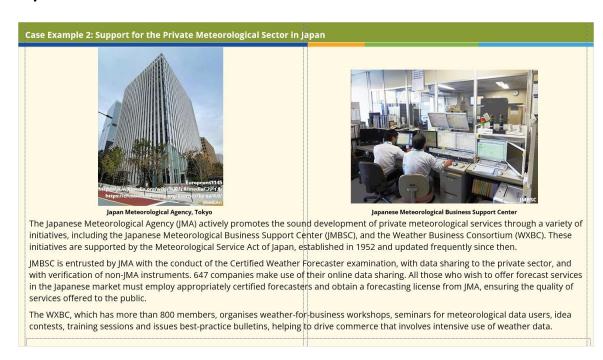
#### Notes:

### 5. lightboxes

## 5.1 Case Example 1: Strong Wind Alerting System for a High Speed Train in the Netherlands



## 5.2 Case Example 2: Support for the Private Meteorological Sector in Japan



# 5.3 Summary: WMO "Guidelines for Public-Private Engagement" 2021, Section 4: Key guidelines for PPE

