

# Liite 1

## Claims:

1. An apparatus (120) comprising:

a user interface (240) for providing interaction with a user;

a communication interface (250) for transceiving information between the

5 apparatus and a server (130);

at least one processor (210); and

at least one memory (220) including computer program code (230);

**characterized** in that the at least one memory and the computer program code

configured to, with the at least one processor, cause the apparatus to:

10 receive electronic map information (710-740) of a geographical area (700),

the map information comprising topography information and soil information;

provide the electronic map information to a user on the user interface;

select, by the user, an action location (750, 780) on the geographical area

to provide action location information, wherein the action location information

15 being associated with location of an action device on the geographical area;

select, by the user, at least one action device type to provide action device

information, wherein the action device comprising at least one of the following:

a gun; and

an explosive;

20 select, by the user, a target location (750, 780) on the geographical area to

provide target location information, wherein the target location information being

associated with location of a target of the action device on the geographical area;

select, by the user, at least one ammunition type associated with the action

device, wherein the ammunition type comprising at least one of the following:

characteristics of ammunition of the gun; and  
characteristics of ammunition of the explosive;

determine safety area information (760, 790) based on the map information,  
the action location information, the target location information and the action

5 device information, wherein the safety area information (760, 790) defining an area  
outside of which is a safety area;

provide the safety area information, the action location information and the  
target location information together with the map information on the user interface; and

provide the user with a possibility to edit the safety area information via the  
10 user interface.

2. The apparatus of claim 1, wherein the at least one memory and the  
computer program code further configured to, with the at least one processor,  
cause the apparatus to:

15 select, by the user, at least one action device type;

request action device information from the server based on the selected at  
least one action device type;

receive the action device information; and

associate the action device information with the location of the action device  
20 on the geographical area.

3. The apparatus of claim 1 or 2, wherein the at least one memory and the  
computer program code further configured to, with the at least one processor,  
cause the apparatus to:

25 receive action device status information; and

combine the action device status information with the action device information to be used for determining safety area information.

4. The apparatus of any of claims 1 to 3, wherein the action location information being associated with location of a plurality of action devices on the geographical area, and the at least one memory and the computer program code further configured to, with the at least one processor, cause the apparatus to:

select, by the user, a plurality of target locations on the geographical area to provide target location information, wherein the target location information being

10 associated with locations of targets of the plurality of action devices on the geographical area.

5. The apparatus of any of claims 1 to 4, wherein the at least one memory and the computer program code further configured to, with the at least one processor,

15 cause the apparatus to select, triggered by the user, at least one of the action location and a target location on the geographical area by using at least one of the following:

receiving location information using a satellite based positioning device (270);

touching a touch sensitive display of the user interface; and

20 providing location coordinates using the user interface.

6. The apparatus of any of claims 1 to 5, wherein the safety area information comprising a geographical area defined by a border line, the border line defining a safety area outside the defined area and an unsafe area inside the defined area.

7. The apparatus of claim 6, wherein the at least one memory and the computer program code further configured to, with the at least one processor, cause the apparatus to:

5 determine, by the user, a moving item (770) with a route (710) on the geographical area to provide moving item route information;

select, by the user, at least moving item type to provide moving item information, wherein the moving item information being associated with the moving item route on the geographical area, wherein the moving item comprising at least

10 one of the following:

a person;

a group of persons; and

a vehicle; and

15 determine safety area information based on the map information, the action location information, the target location information, the action device information and the moving item information; and

provide the safety area information, the action location information, the target location information and the moving item information together with the map information on the user interface.

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8. A method for generating safety area information (760, 790), **characterized** in that the method comprising:

receiving (610) electronic map information (710-740) of a geographical area (700), the map information comprising topography information and soil information;

25 providing (620) the map information to a user on a user interface (240) of

an apparatus (120);

selecting (630), by the user, an action location (750, 780) on the geographical area to provide action location information, wherein the action location information being associated with location of an action device on the  
5 geographical area;

selecting (640), by the user, at least one action device type to provide action device information, wherein the action device information being associated with the location of the action device on the geographical area, wherein the action device comprising at least one of the following:

10 a gun; and

an explosive;

selecting, by the user, a target location (750, 780) on the geographical area to provide target location information, wherein the target location information being associated with location of a target of the action device on the geographical area;

15 select, by the user, at least one ammunition type associated with the action device, wherein the ammunition type comprising at least one of the following:

characteristics of ammunition of the gun; and

characteristics of ammunition of the explosive;

determining (650) safety area information (760, 790) based on the map  
20 information, the action location information, the target location information and the action device information, wherein the safety area information (760, 790) defining an area outside of which is a safety area;

providing (660) the safety area information, the action location information and the target location information together with the map information on the user interface;

25 and

providing the user with a possibility to edit the safety area information via the user interface.

9. A computer program embodied on a computer readable medium comprising  
5 computer executable program code (230), **characterized** in that which code, when  
executed by at least one processor (210) of an apparatus (120), causes the  
apparatus to:

receive electronic map information (710-740) of a geographical area (700),  
the map information comprising topography information and soil information;

10 provide the electronic map information to a user on a user interface (240);

select, by the user, an action location (750, 780) on the geographical area  
to provide action location information, wherein the action location information  
being associated with location of an action device on the geographical area;

select, by the user, at least one action device type to provide action device  
15 information, wherein the action device comprising at least one of the following:

a gun; and

an explosive;

select, by the user, a target location (750, 780) on the geographical area to  
provide target location information, wherein the target location information being  
20 associated with location of a target of the action device on the geographical area;

select, by the user, at least one ammunition type associated with the action  
device, wherein the ammunition type comprising at least one of the following:

characteristics of ammunition of the gun; and

characteristics of ammunition of the explosive;

determine safety area information (760, 790) based on the map information, the action location information, the target location information and the action device information, wherein the safety area information (760, 790) defining an area outside of which is a safety area;

5 provide the safety area information, the action location information and the target location information together with the map information on the user interface; and

provide the user with a possibility to edit the safety area information via the user interface.