Table 1 illustrates the categories and types of data generally available to public safety.

**Table 1: Example Public Safety Data Types**

<table>
<thead>
<tr>
<th>Data Stream Category</th>
<th>Example Data Types</th>
</tr>
</thead>
</table>
| Video & Still Images       | ● Fixed/Stationary or Pan Tilt Zoom mounted CCTV cameras (some potentially including infrared data)  
● Vehicle Cameras          
● Cell phone cameras       
● Drones                    |
| Audio                      | ● 911 calls  
● Communications between dispatch and first responders  
● Peer-to-peer first responder communications                  |
| Text                       | ● 911 texts  
● Communications between dispatch and first responders  
● Peer-to-peer first responder communications                  |
| Social Media (multimedia)  | ● Facebook  
● Instagram  
● Twitter  
● Includes text, images, video, audio, graphics, and other non-textual information                        |
| Sensors                    | ● Gunshot detection systems  
● Automated license plate readers  
● First responder asset tracking systems (for example GPS location of first responders and their vehicles) |

Public safety requires automated approaches to sift through this incoming data and enable decision support tools and capabilities of the future. Tools and capabilities are needed which can identify emergency events and emergency related information within live streaming data. Table 2 lists examples of emergency events.

**Table 2: Example of Public Safety Emergency Events**

<table>
<thead>
<tr>
<th>Public Safety Domain</th>
<th>Example Emergency Event Types</th>
</tr>
</thead>
</table>
| Law Enforcement      | ● Streetfight  
● Theft - stealing purse  
● Active breaking and entering  
● Domestic disturbance  
● Vehicle accident  
● Brandishing a gun  
● Disorderly conduct  
● Drug overdose  
● Homicide  
● Active shooter |
| Fire                 | ● Vehicle accident - fire  
● Residential fires  
● Commercial building fire  
● Dumpster fire                                        |
| EMS                  | ● Choking  
● Vehicle accident injury  
● Drug overdose  
● Residential fire injury                                           |