Persistent-Change Monitoring (PCM)® is an image-based change detection data layer that uses Maxar patented scale- and sensor-independent algorithms to highlight areas of human construction and other activity. By drawing immediate attention to new construction, PCM eliminates the need to manually scan imagery for feature change—saving up to 90% of the costs to update and maintain GIS databases.

**Features & Benefits**

PCM isolates changes that persist over time, allowing it to filter out noise from seasonal, agricultural and other natural cycles which hamper traditional image-to-image change detection methods. The full product documents over thirty-four years of persistent change to provide insight into historical patterns of development, while also locating more recent changes in infrastructure.

**Rapidly prioritize areas of change**
- Enables prioritization of resources and other data collections, based on where changes have actually occurred

**Efficiently update geospatial information**
- Enables highly efficient, pinpoint updates of geospatial information at 1:50,000 scale
- Higher resolution versions of PCM support map updating at 1:5,000 scale

**Effortlessly monitor areas of interest for change**
- Provides cost-effective surveillance of geohazard assessment and construction over broad areas for intelligence tip-offs or regulatory enforcement

**Effectively analyze historical trends**
- Examines historical change and deviations from patterns of growth and development

**The Role of PCM in the Workflow**

- **Out-of-date layer**
- **High-resolution imagery**
- **PCM layer**
- **Up-to-date layer**

**Prioritize Areas of Change**

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**Update Geospatial (Map) Information**

PCM detection of natural gas and oil operations in the Pinedale Field near Pinedale, WY
Features

PCM is delivered as a geospatial data layer (geodatabase, shapefile, KML or GEOTIFF) designed to fit into your existing systems and workflows. The standard data is enhanced by attributes that aid in adapting it to a variety of tasks. The attributes can be further customized with customer-furnished data for an optimally tailored product.

- Enables Customizable data attribution including potential type of change (with optional enhancement using customer-furnished data)
- Highly interactive color-coded change detection output
- 1:50,000 scale data available back to 1986

Markets

- Defense & Intelligence Agencies
- Civil Mapping Agencies
- Oil & Gas Industry
- Geospatial Content Providers
- Utilities

MONITOR CONSTRUCTION ACTIVITY

MONITOR HISTORICAL CHANGE

PCM Change Date
- 2017
- 2016
- 2015
- 2014
- 2013
- 2012
- 2011