

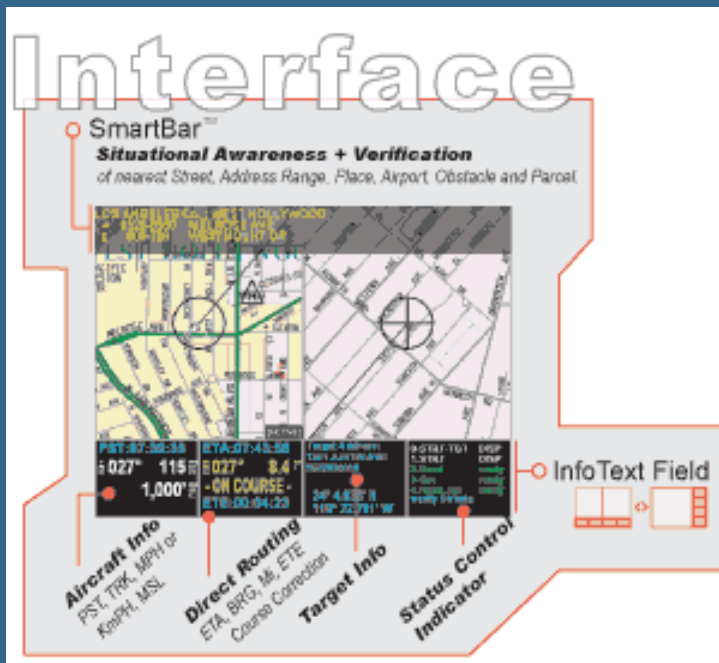
An aerial photograph of a white helicopter with blue, red, and yellow stripes, flying over a suburban neighborhood. The helicopter is the central focus, with its rotors blurred from motion. The background shows a dense residential area with houses, trees, and some commercial buildings. The text "Air One" and "10-8" is overlaid in yellow at the top, and "Staff Sergeant Scott Healey" and "Vancouver Air Section" is overlaid in yellow at the bottom.

Air One "10-8"

Staff Sergeant Scott Healey
Vancouver Air Section

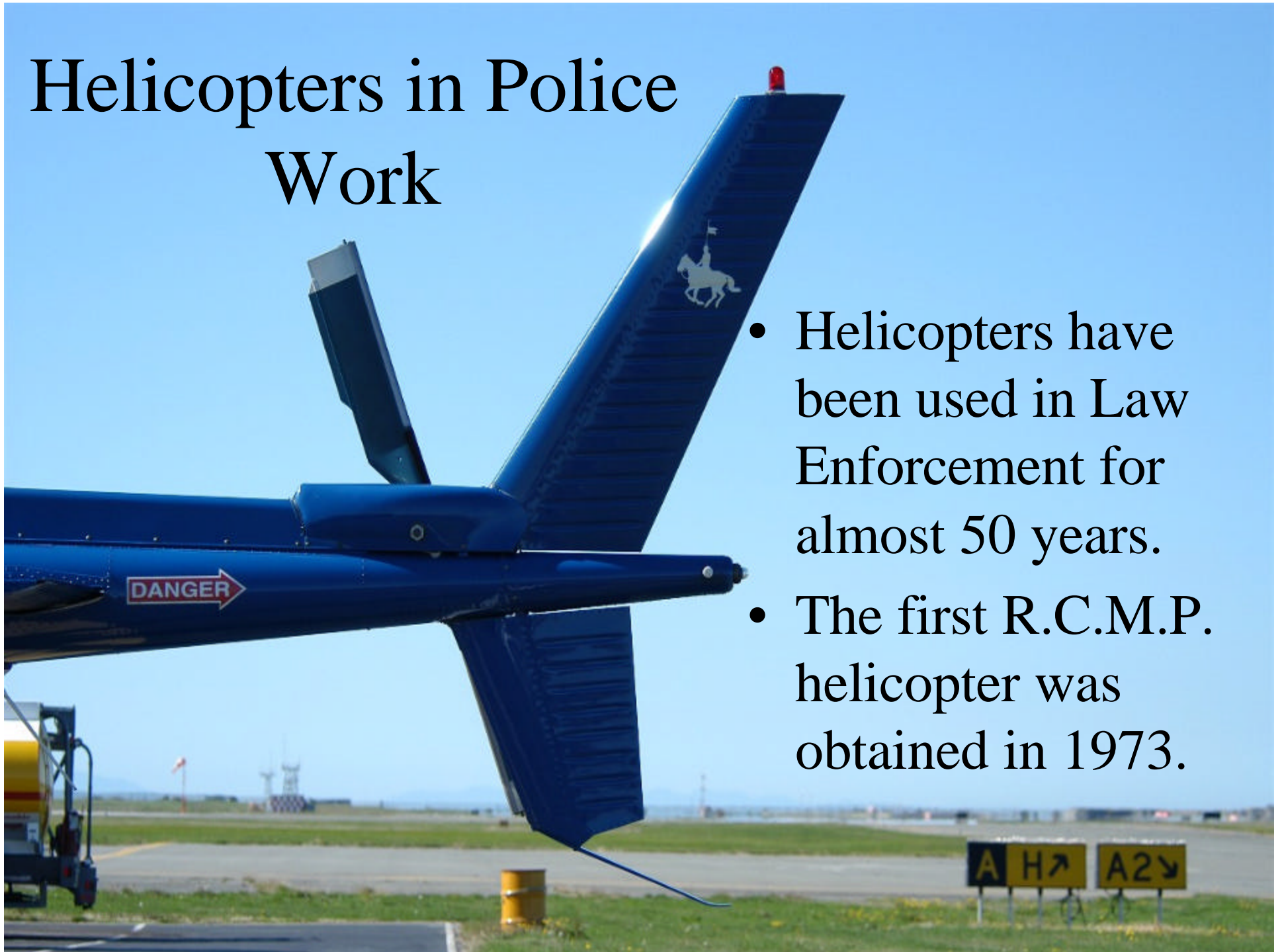
Moving Map Technology

Helping Airborne Law Enforcement



Helicopters in Police Work

- Helicopters have been used in Law Enforcement for almost 50 years.
- The first R.C.M.P. helicopter was obtained in 1973.



Helicopters in “E” Division

- Eurocopter A Star B3
 - “Air 1” - Vancouver
 - “Air 4” - Kamloops
- Bell 206h
 - “Air 2” – Comox
 - “Air 3” – Kelowna



Multitaskers

- Search and Rescue
- Telecoms
- Transport
- ERT Aerial Platforms
- Border Patrol
- LMD Patrol



Patrol Work

- Helicopters are “Force Multipliers”.
- 1 Helicopter = 15 Patrol cars.
- Equipment on board:
 - FLIR
 - Daytime colour camera
 - MW Downlink
 - “Night sun”

Dispatched to a Scene



- Assisting members on a call.
- Helicopter crew observes a problem and wants to relate the information.

Current System



- Not Accurate.
- Difficult to use at night.
- Interferes with cameras and radios.
- Unable to maintain contact with a moving target and reference map.

The Future



- Accurate.
- Accessible information.
- Quick updates.
- Reduced workload in cockpit.
- Dispatch Center can send messages to crew in flight.

Mapping



- “Center Line Data” for streets in B.C.
- Parcel maps can pinpoint an exact address.
- Topographic and marine charts.

Mapping

- System allows split screen.
- Enter an address and a direct and ETA will be calculated.
- The address will be highlighted on the map.



Mapping

- System can be coupled to the Forward Looking Infra-Red System.
- Place the cursor on a building or property, the address will be provided.
- Put the cursor on a street, the block or intersection will be provided.

Mapping

- Forest Fire.
- Faster response time to scene.
- Provide direction to ground units.
- Set up perimeters.
- LMD units with GPS will be on screen.
- Air 1 will be on dispatch screen.



Challenges

- Obtaining accurate GIS information.
- Putting the LMD puzzle together.
- Use of industry standard format.

Benefits

- Policing is a large expense to cities.
- Accurate maps and systems help reduce costs.
- Catching criminals at scene saves “follow up” costs.



Aerocomputers

- Will show a different map layout.
- Mapping system is coupled to a Video/FLIR system.

Thanks

- Karen Stewart of Surrey.
- Jonathon Mark of Vancouver.
- All who have helped with providing mapping information.

