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AI DRIVEN STRATA CCTV & SECURITY

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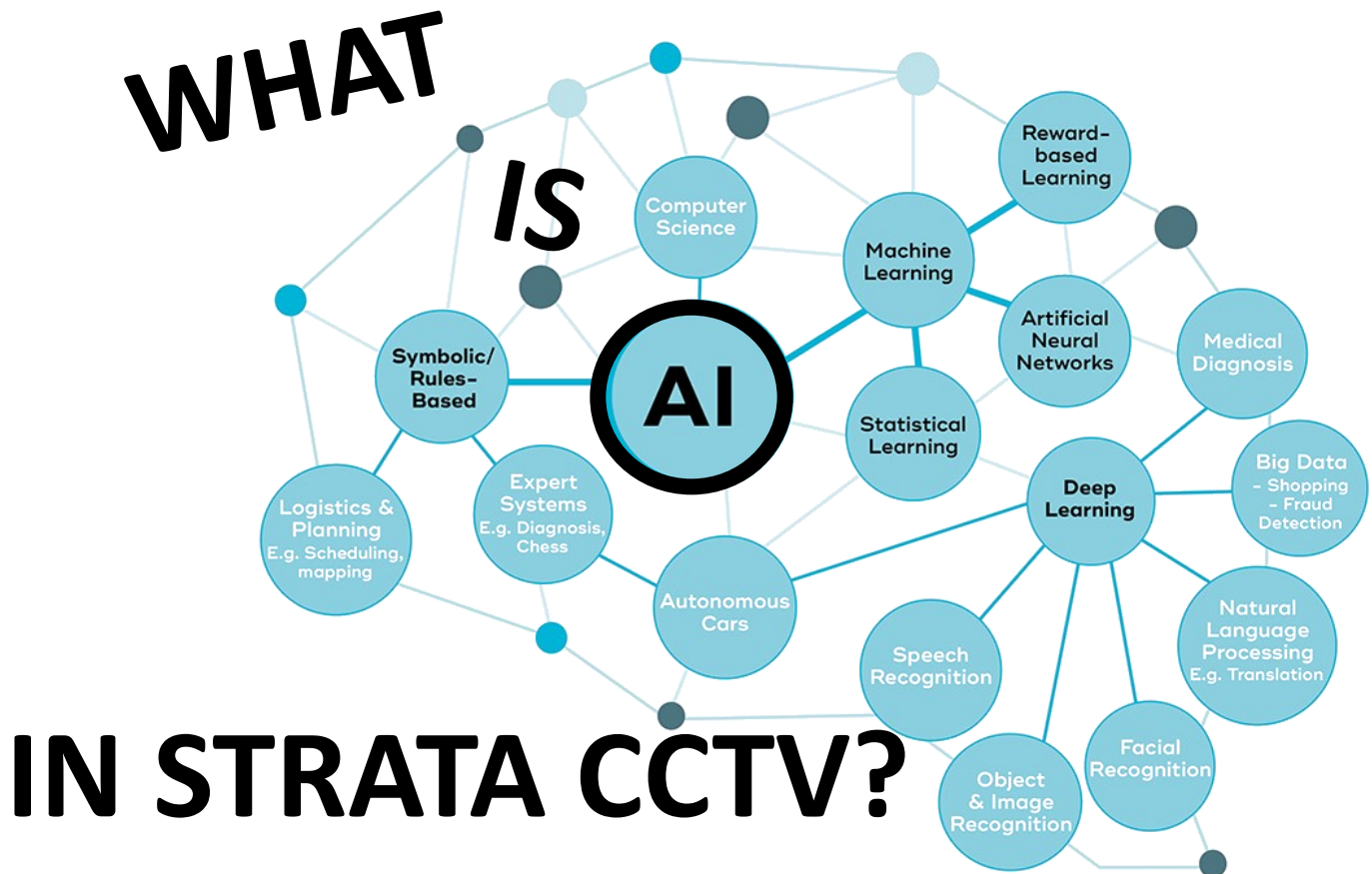
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Only 1% of CCTV is ever watched! This figure is based on heavy users of CCTV. Building management will rarely make a business case to look into minor incidents or infractions, as this process takes time away from income producing work or Family time. Put simply, is it worth expending 4 hours labour to find which resident didn't clean up their pets mess left ripe on common property? Human time costs money therefore Cost vs benefit is a major CCTV review impediment.

Another discouraging Human review factor is the tedious nature of CCTV interrogation.. Inefficiencies in the review process, which requires a Human to review recordings on or near real-time speeds, operating with a ticking clock time frame limit trying to avoid 'human factor' pitfalls like smart phone distraction, lack of focus, poor informant recall with event times and dates etc, all of which create 'self-doubt that something may have been missed... causing many inexperienced CCTV operators to simply just give up

This 1% figure is ego deflating for the leaders of our craft, knowing that only a tip of the iceberg ever gets viewed and so many incidents of bad faith remain unknown thus unchallenged, despite being captured.

A would-be perpetrator of any activity of bad faith undergoes the following 3-5 second mental process before engaging or disengaging from whatever misfeasance they're about to commit or omit.

1. Adrenalin rush in anticipation or reaction to some temptation. GO or NO-GO
2. Heightened situational awareness as 'self preservation' primal instinct kicks in, causing reflex threat assessments. IS THAT CAMERA REAL AND WILL IT SEE MY FACE IF I RUN AND DIP MY HAT.
3. With Adrenalin subsiding misguided logic bias may now provide self reassurance to act. AS IF THEY WILL BOTHER TO CHECK, THEY PROBABLY WONT REALISE IT'S EVEN GONE..



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Victims of crime are highly motivated to devote significant time and effort to catch perpetrators, in what often seems excessive and disproportionate when compared to their actual loss. This is due to emotional bias centred on their feeling of violation, and this lack of detached objectivity is a very important reason why victims are rarely the ones who do the checking, the responsibility often falling onto Building Management, who are forced to triage this and establish 'facts' as quickly as possible.

Computers **do not have** any of these 'Human limitations' and recent advances in computing platforms makes them better emulators of the human condition (both in computation and neurologically), nearly rivalling our brains in terms of calculations per second but also in the AI neuroplasticity, or its ability to learn.

The mission critical points of AI difference, when compared to a Human driven model:

- Always on
- Far reaching
- Always focused
- No rest requirements
- Non-sentient so task dedicated
- True multitask capable
- Can learn and adapt
- Unlimited availability classed asset
- Can monitor live and deploy countermeasures if infractions are detected
- Can simultaneously review (and re-review) archived data utilising variable aggressive posture levels, determined by the system operator.

This AI difference comes into fruition when coupled with dedicated and experienced security system integrators who commit to the AI formulation and its education process, and engaged building managers and Executive Committees, who can support the adolescent AI process by clearly outlining specific building problem areas and providing initial and ongoing monitoring and emerging root cause analysis.

This 'AI Parenting' creates an assemblage of Core AI components that can help the system review past recorded and presently monitored current events to discern and identify acts of bad faith perpetrated by your neighbours.

This drastically increases CCTV information consumption and reaction to well over 90%, making AI based CCTV a formidable force, therefore a necessary component in every buildings Security management Plan. This is why our systemic delivery scope always includes a bundled AI focused workshop with site stakeholders to explore what AI can be used and expected levels of adjustment engagement to facilitate programming changes and oversee AI learning

AI - CORE TECHNOLOGIES

The core technologies that all of our AI CCTV solutions are based on, are built up from the following components - giving you an overview of what's possible:

- **Movement detection:** Identify and send alerts based on either human or vehicle movement detection. [Read more >](#)
- **Object abandoned detection:** Recognise when a specified object is abandoned. Useful to secure public and private spaces.
- **Object missing detection:** Recognise when certain objects are moved. Useful to secure stock outside and to aid with stock control. [Read more >](#)
- **Area protection:** Recognise when a vehicle or human enters and/or exits a specified 'area'.
- **Loitering detection:** Recognise when bodies move into a specified 'area', and remain in that area for a specified time.
- **Stranger detection:** Identify when an individual is not registered on the database when they are spotted by a camera.
- **Face recognition:** Get different alerts based on different people enrolled to a GDPR complaint "face library" database. For example, if a pre-enrolled VIP walks in to your lobby, you can set the system to notify your team. [Read more >](#)
- **Passive access control:** Enable access to a specific location when a person registered on the database is spotted (e.g. by connecting to a door / barrier control system). And create alerts when a person who is not permitted in a certain location is identified (e.g. a cleaner operating in the safe room).
- **People-counting / people management:** Track and manage people entering/exiting your property, how many people enter specific areas of your property, track building utility over time (e.g. levels of usage of different areas of the building).
- **ANPR:** Identify and log vehicles via their number plates; track car park usage over time.
- **Video structuration / smart search:** Allows you to easily search for events / persons based information such as what the subject was wearing including colour of clothing / gender of subject or what a colour of a vehicle and much more. [Read more >](#)



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AI - STRATA USE-CASES



Illegal Dumping

If you've got a problem with end of lease illegal dumping wasting strata funds
Core AI feature = movement Detection, loiter detection, people counting, Human detection



Stop bikes / garden furniture being stolen

You've got a persistent problem with various items going missing outside your house - bikes being stolen, garden furniture & statues going missing. **Core AI feature = object movement detection.**



Dogs fouling your lawn

Everyday, one of your neighbours' dogs keeps fouling on your front lawn. You want to find out who it is and stop them from doing it. **Core AI feature = loitering detection.**



Dealing with car parking issues

The entrance to your business keeps getting blocked by car parking in front of your gate. You also have people parking in your car-park who shouldn't be - you want to stop this. **Core feature = vehicle movement detection & ANPR.**



Understanding who's on-site & when they're on-site

You have various people who work for you, and you're away a lot, and you want to understand when your gardener / staff are working / on site - and also when unauthorised people visit your house. **Core AI feature = facial recognition.**



Stopping a graffiti problem

Youths keep graffiti-ing and damaging the perimeter of your business and you want to stop them. **Core AI feature = loiter detection.**



Mail and parcel Theft

If you've got a problem with your mail and parcels persistently targeted then facial recognition can be used to help you more easily identify, trace and real-time alert suspicious activities across your building. **Core AI feature = facial recognition, loiter detection**



Car park garage Security

If you've got a problem with carpark vehicle and storage cage damage and theft. **Core AI feature = movement Detection, loiter detection**



Apartment Overcrowding, illicit trading (drugs and prostitution)

Serious danger for unaware neighbours plus premature aging of building and fire evac congestion hazard **Core AI feature = movement detection, people counting**



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AI - STRATA USE-CASES (EMERGING)

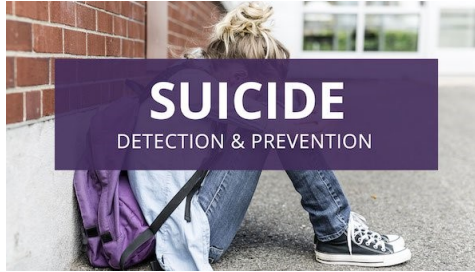


Throwing objects from building

Height of buildings increase with rises in population density . This increase in height also increases the impact velocity of objects thrown from buildings. A beer bottle tossed from a 400m height window would strike the ground at 149KM/h causing substantial damage

Core AI feature = movement

Detection, Human detection, High Rise Litter Detection



Suicide Detection and Prevention

Core AI feature = movement

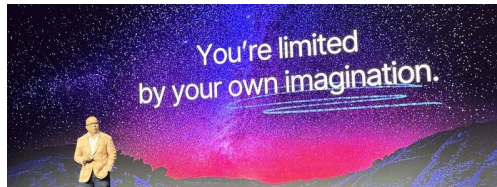
Detection, Human detection, Crowd avoidance, body heat map analysis



Noise Abatement

Can be very beneficial especially when being reported in real-time to a BM

Core AI feature = Audio Intensity trigger, audio vector triangulation

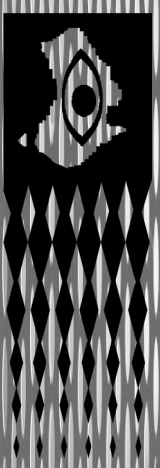


What comes next...

The core AI driver here is us. Lack of Imagination or dedication and Human ignorance will stop AI Progression
 Those who aren't afraid of a self-aware computer sending a terminator back in time to interfere with your privacy and steal your recipe for the perfect pound cake, will further push the AI frontier, which will ultimately benefit all of Society

Strata Security Promotion

Austral Surveillance



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Options



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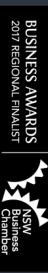
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