The point of view of policy makers. A proposal for a urban Planning Mark-up Language (in short PML)

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Urban planning

- Currents standards essentially focus on "buildings" (BIM/CityGML LoD 3+) or "urban representation" (e.g. CityGML).

Urban planning

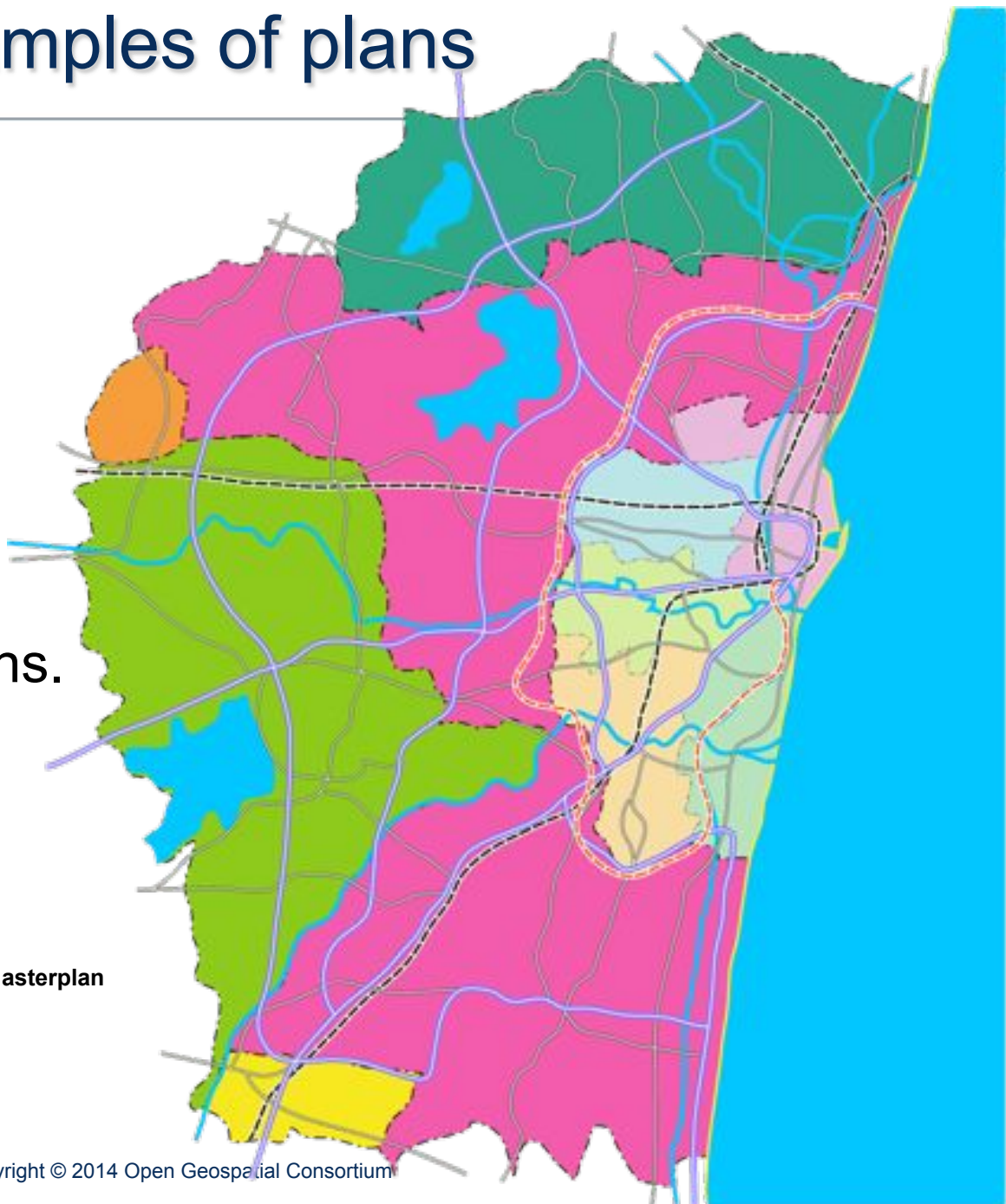- No standard focus on modelling the planning laws.

Image courtesy of :Stephens Planning & Design

Examples of plans

- strategic plans,
- comprehensive plans,
- neighborhood plans,
- regulatory and incentive strategies,
- historic preservation plans.

Chennai Masterplan

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Advantages – an example

- Let us assume we had Planning Mark-up Language (PML)

- The existing urban law (i.e. the urban plan) changes, allowing to build (only in few areas of the city with specific requirements) extra floors.

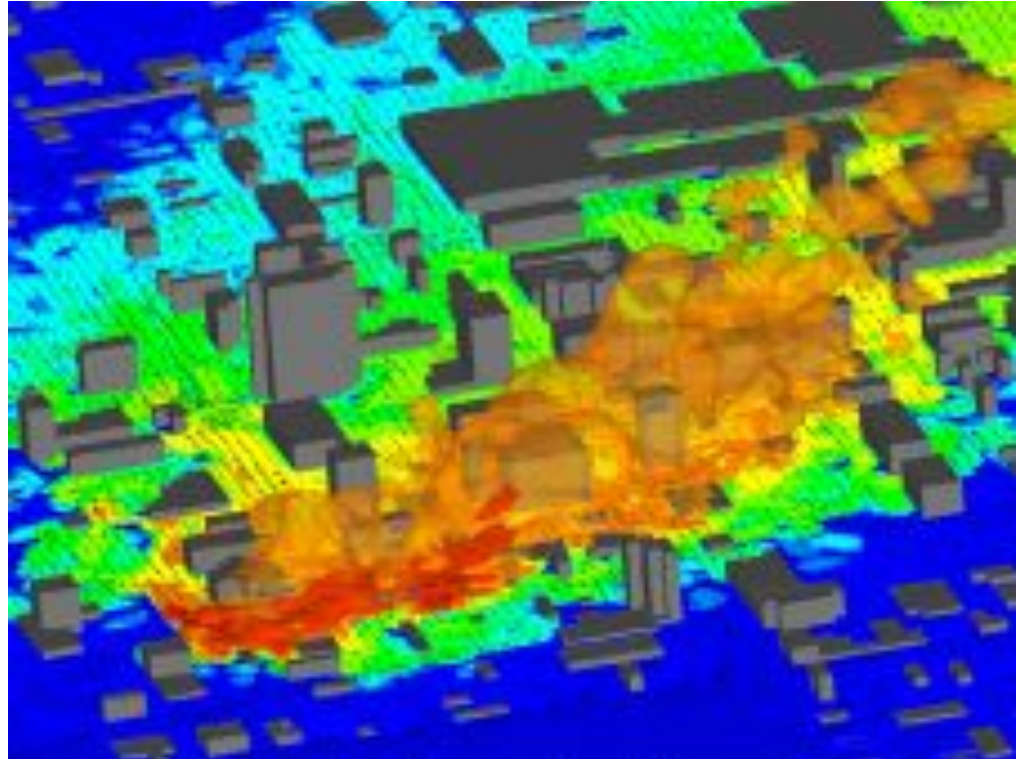**OGC®**

Advantages – an example

- A UrbanLawML-compliant software could "load" the new XML file and simulate the effect over the city, for instance creating a new CityGML model of the city (with taller buildings wherever appropriate).

simulation

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Advantages – an example

- This new model could be used to simulate environmental impact (e.g. in terms of solar potential, urban ventilation, traffic flow etc.)

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Thank you!

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