



Wisconsin Building Safety Network

(((WBSN)))



**State and local officials affiliated to
promote safety and health in the
built environment.**

Our Investments and Communities





Department of Commerce

- In accordance with Chapter 560, Wis. Law, the Department of Commerce shall:
 - develop a state-local relations policy to facilitate closer coordination and cooperation between state and local governments.
 - seek closer cooperation and coordination between units of state government, and business and industry.



S&B Networking Strategy

Coordinate Division regulatory services with municipalities to eliminate duplication of efforts that promote health, safety and welfare in built environments.



Wisconsin Building Safety Network

(((WBSN)))

- 1913 – Fire departments were assigned **by law** to conduct fire prevention inspections throughout Wisconsin.
- 1915 – Municipal plan review programs were recognized **by law** as acceptable alternatives to state level plan review.



A “Broadcasting” Network



Some programs are
from central
source.

A “Broadcasting” Network

Many programs originate locally.





A “Broadcasting” Network



Local WBSN affiliates serve communities.



Two Major Program Areas

Commercial Buildings

WBSN – CBC

Broadcasting section 101.02, stats.

One- and Two-Family Dwellings

WBSN – UDC

Broadcasting section 101.60, stats.



Wisconsin Building Safety Network

Commercial Buildings

- Over 200 municipalities are delegated agents for commercial building plan review and/or inspection.
- Over 50% of Wisconsin citizens live within these agent municipalities.



((((WBSN)))

Agents for Commercial Buildings

- 180 for Building Plan Review & Inspection
- 20 for Building Inspection
- 3 for Soil Erosion Inspection
- 9 for Plumbing Plan Review
- 5 for Fire Sprinkler Plan Review & Insp.
- 3 for Swimming Pool Inspection
- 1 for Boiler Inspection
- 2 for Elevator Inspection



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One- and Two- Family Dwelling Construction

1249 Municipalities Administer and Enforce





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Fire Prevention Inspection & Education

860 Fire Departments are Agents by Law





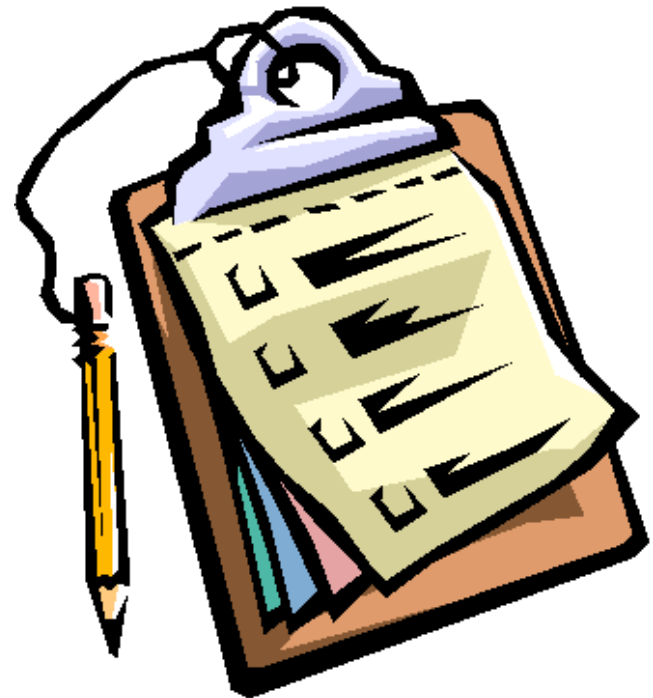
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Private Onsite Wastewater Treatment Systems

By law, 71 Counties and 2 Cities Administer and Enforce

General Plumbing

By law, 47 Municipalities Inspect Plumbing in Commercial Buildings





A “Broadcasting” Network



Some programs are
from central
source.



State Code Projects Underway

Commercial Building Code and Fire Prevention Code

- To adopt the 2009 editions of national model codes from the International Code Council and the National Fire Protection Association.
- Expected code effective date – July 1, 2010.



State Code Projects Underway

Carbon Monoxide Alarm Requirements

- Emergency Rules Now in Effect
 - Based on 2007 Wisconsin Act 205
 - Applies to new and existing commercial buildings containing residential occupancies
 - Requires retrofit of existing buildings by April 1, 2010
 - Fire prevention inspections will include carbon monoxide alarms starting in January, 2011.



State Code Projects Underway

Revisions with Effective Date of 3-1-09

- Comm 16, Electrical Construction
 - Based on 2008 National Electrical Code.
 - Arc-fault circuit interrupters and tamper resistant receptacles required on 1-1-2010.
- Comm 81-84, Uniform Plumbing Code
- Comm 90, Public Swimming Pools and Water Attractions



State Code Projects Underway

Public Hearings in March or April

- Electrical System Inspections for Commercial Buildings
- Licensing of Electricians and Electrical Contractors
- Both required by 2007 Wis. Act 63



State Code Projects Underway

Electrical System Inspections for Commercial Buildings and Farms

- ❑ Municipal programs to be included.
- ❑ Contract inspection agencies will be utilized by Commerce for areas not served by municipalities.
- ❑ April 1, 2010 is the target effective date.



Code Projects Underway

Electrical System Inspections for Commercial Buildings and Farms

- ❑ Permits and inspections proposed to be required for the following:
- ❑ Electrical service installations, and
- ❑ Feeder and branch circuit installations.



Code Projects Underway

Licensing of Electricians and Electrical Contractors

- ❑ April 1, 2013 is when the law requires all electricians and electrical contractors to be licensed.
- ❑ A residential electrician and electrical contractor category will be proposed.



Code Projects Underway

Erosion and Sediment Control & Storm Water Management

- More Focused Statewide Enforcement
- April 1, 2010 – Target Effective Date
- Municipal programs to be included.
- Contract inspection agencies will be utilized by Safety and Buildings.



Internet Communications

Fire Incident Records and Reports

- Based on 2007 Wis. Act 75.
- Requires Fire Departments to report building related fires to the United States Fire Administration, USFA.
- Reports must be filed electronically within 60 days of the fire.

Internet Communications

- Fire Department Performance Certifications – paperless in 2010.
- Network output data to be collected and shared.
 - Plan Reviews
 - Permits
 - Inspections



WBSN Improvement Ideas

Establish Network Monitoring System

- S&B is working with the ICC International Accreditation Service for ideas.
- Consensus-based system expected; involving regulators, designers and builders.





Networking – Several Levels

- Within Wisconsin with municipalities
- Governor's initiative with Minnesota
- Through national organizations
 - International Code Council
 - National Fire Safety Administration
 - National Governors Association



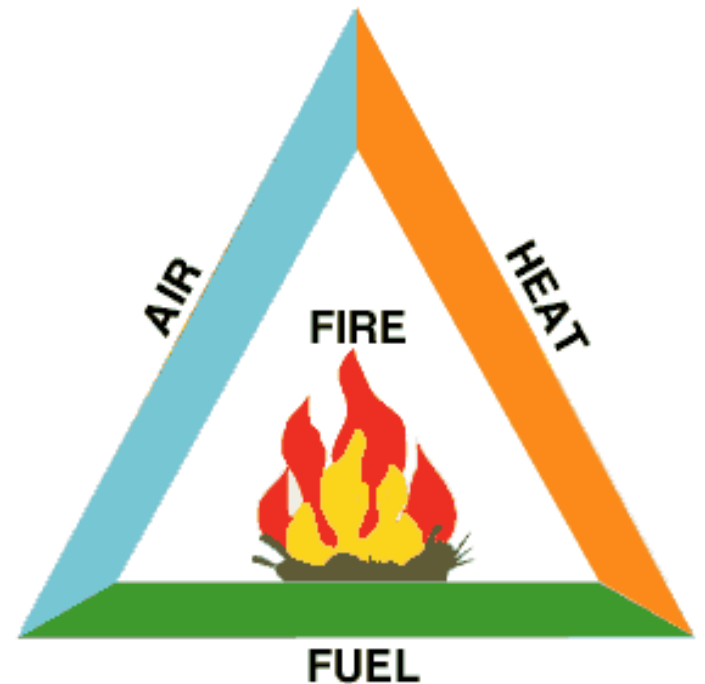
Vision 20/20

National Strategies for Fire Loss Prevention



Vision 20/20

- National Forum
 - Washington DC
 - Spring, 2008
- Over 150 experts from throughout the U.S.
- Henry Kosarzycki represented Wisconsin



Vision 20/20

- Promote collaboration between fire and building departments.
- Involve fire departments in plan review and inspection programs.



Energy Awareness

"... each day brings further evidence that the ways we use energy strengthen our adversaries and threaten our planet."

President Barack Obama
Inaugural Address
January 20, 2009





S&B Energy Update

National Governor's Association

- Policy Academy on Advanced Energy Strategies for Buildings
- January 14 – 16, 2009
- Seven states were invited to participate.
 - Arizona
 - Florida
 - Hawaii
 - Iowa
 - Michigan
 - Utah
 - Wisconsin



NGA Policy Academy on Advanced Energy Strategies for Buildings

Five Wisconsin Entities are Involved

- Wisconsin Office of Energy Independence
- Wisconsin Department of Commerce
 - Henry Kosarzycki
- Wisconsin Public Service Commission
- Wisconsin Department of Administration
- Energy Center of Wisconsin



NGA Policy Academy on Advanced Energy Strategies for Buildings

Strategies Focused on Buildings

- Energy Conservation and Efficiency
- Renewable Energy
- Energy Code Implementation
 - Code Development
 - Education
 - Enforcement
 - Community Involvement



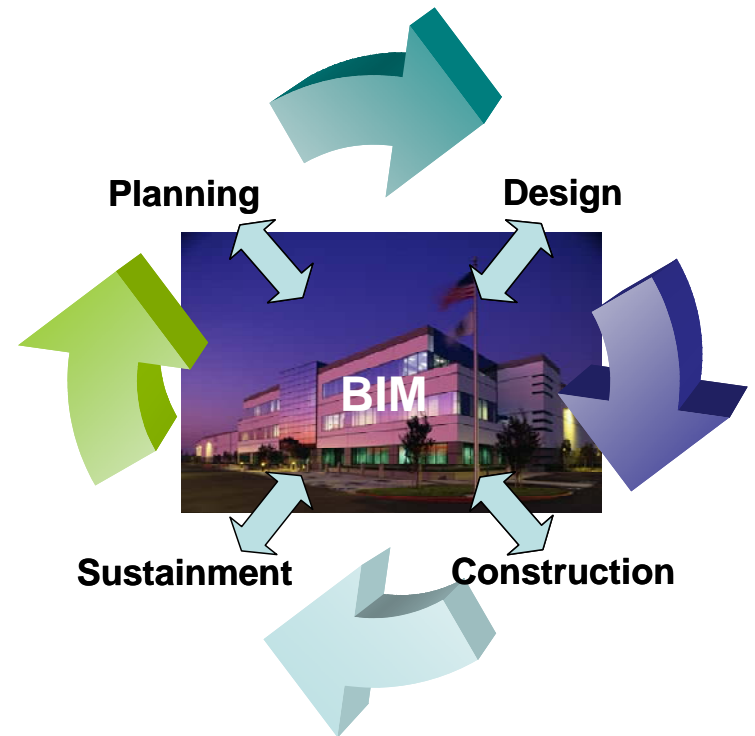
New Technology to Consider

- Building Information Model (BIM)
- ICC SMARTcodes
- Model Checking Software

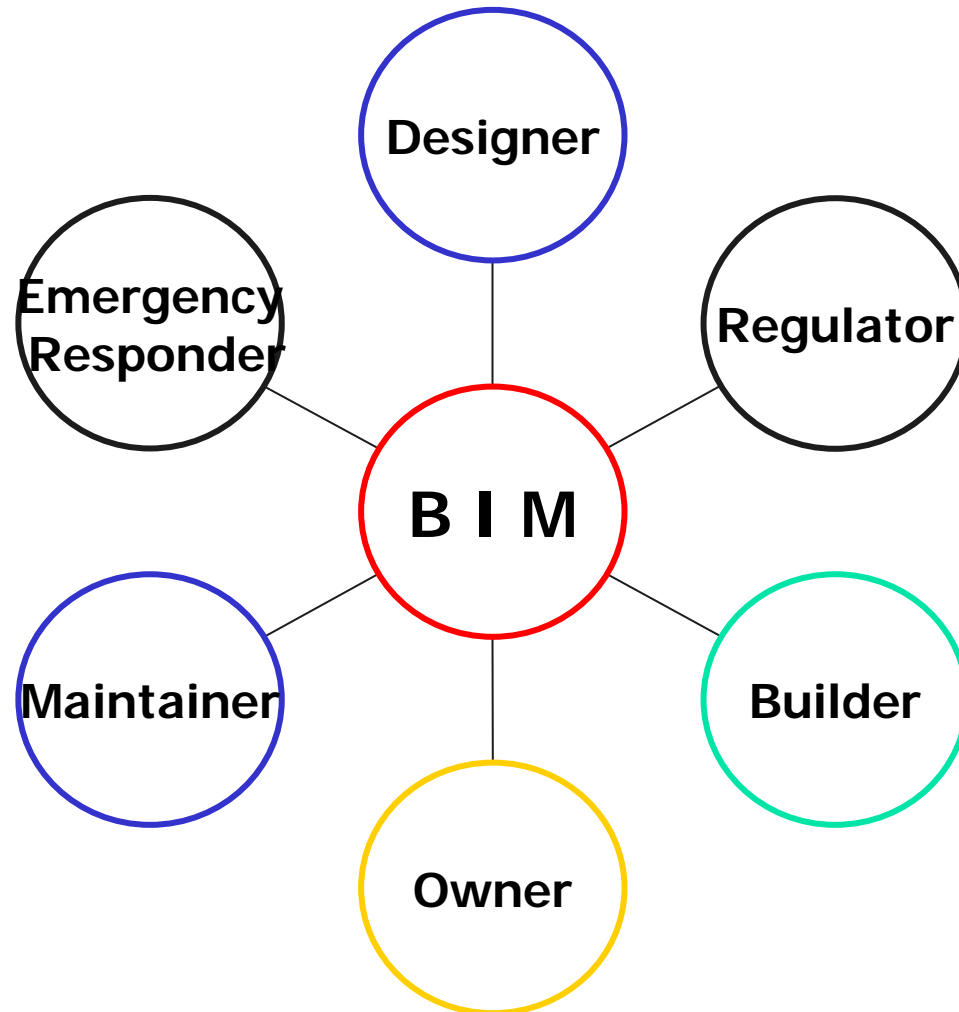


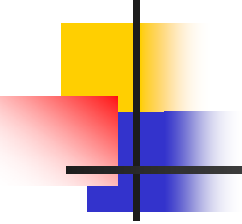
Building Information Models

A building information model (BIM) is a digital representation of the physical and functional characteristics of a facility.



Sharing Information





SMARTcodes Project

- Led by the **International Code Council**.
- Code text is electronically linked by topic to aid designers, builders, owners and regulators.
- Ties to **Model Checking Software** which screens a **BIM** for code compliance.

Wisconsin Building Safety Network

Annual Meeting

September 30, 2009

Pewaukee, Wisconsin

Co-sponsored by:

University of Wisconsin

Wisconsin Department of Commerce





Thank You!

