

Abstract geometric lines in the top-left corner of the slide, consisting of several thin, black, overlapping lines that form a complex, non-representational shape.

TECH INNOVATION IN THE BUILDING PERMITTING PROCESS

WHAT I'LL COVER

- ❑ THE WAY IT WAS
- ❑ THE WAY IT IS TODAY
- ❑ INNOVATING FOR
TOMORROW
- ❑ CHALLENGES to
IMPLEMENTATION

Two thin black lines intersect on a light gray background. One line is oriented diagonally from the top-left towards the bottom-right, and the other is oriented diagonally from the top-right towards the bottom-left. They intersect in the upper-left quadrant of the image.

THE WAY IT WAS

THE WAY IT WAS

- Entirely a paper process.
- Required multiple in-person visits to Authority Having Jurisdiction* (AHJ) office.
- Required extensive time input for applicants and AHJ staff.
- Required AHJ to employ adequate front counter staff to process volume.
- Inspections performed on a permit site by inspections staff.
- Can extrapolate this into road miles traveled, fuel consumed, and other transportation costs associated with the above trips.
- Paper records kept in large file systems were subject to misplacement and all out loss.

* An Authority Having Jurisdiction, or AHJ, refers to the office or agency responsible for enforcement of a regulation, such as a building code or standard. It is often the local municipality, or a county, state or federal agency or office.



THE WAY IT IS
TODAY

THE WAY IT IS TODAY

- Many AHJ use an online portal for applications and/or document submittals, eliminating in-person visits to an AHJ's physical office.
- Some use video inspection platforms to perform virtual inspections. Most of these still occur on a prescheduled basis.
- Use of online and virtual processes can save significant time and travel costs as compared to the way it was.
- Document review remains a hands-on process.
- A digital-paper-digital-paper process is still common.
- Most AHJ reviewing plans in any digital format do so with PDF editor software.
- Today's processes in some ways are a digital recreation of the old paper processes.



INNOVATING FOR
TOMORROW

INNOVATING FOR TOMORROW

- The use of virtual inspections could be expanded by creating processes for on-demand inspections. (Think call center queuing processes)
- The use of app based virtual inspection systems can be created or expanded.
- A self-guided inspection platform for certain inspections with pre-screened applicants could be developed.
- Electronic plan review systems could be improved to review plans in the format in which they are created and using 3D modeling.
- Using AI to draft permit review correspondence has room for expansion.
- AI assisted platforms for plan review needs to be developed.

An abstract graphic design featuring two thin, dark grey lines that intersect on a light grey background. One line runs diagonally from the top-left towards the bottom-right, while the other runs from the top-right towards the bottom-left. The intersection point is located to the left of the text.

CHALLENGES TO IMPLEMENTATION

CHALLENGES TO IMPLEMENTATION

- Costs associated with in-house development of platforms.
- Platforms may become an expensive one size fits all solution that are not attractive to some AHJs.
- Concern around the integration of copyrighted works into systems such as many building codes, standards and even plan materials.
- Acceptance of technology by AHJ staff, applicants and constituents.
- Trepidations about errors and omissions liability; including personal, jurisdictional, property owners and for applicants.



THANK YOU

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