Roadmap to Lifecycle Building Information Modeling in the Canadian AECOO Community

**Technology**
- Level 0: Isolated, Independent
- Level 1: Networked, Coordinated
- Level 2: Interoperable, Collaborative
- Level 3: Integrated
- Level n: Unified, Optimized

**Organization**
- Level 0: Ad Hoc
- Level 1: Defined
- Level 2: Managed
- Level 3: Coordinated
- Level n: Integrated

**Process**
- Level 0: Managed
- Level 1: Process
- Level 2: Collaborative
- Level 3: Interoperable
- Level n: Integrated

**2014**
- Create a movement to BIM
- Inform the community through outreach programs and promotion
- Develop and communicate a national BIM strategy
- Develop a reference curriculum for BIM education in Canada
- Develop BIM training packages for AECOO community stakeholders
- Develop metrics and Key Performance Indicators for consistent performance and capability assessment
- Develop a maturity model/capability assessment tool
- Establish partnerships between academia and industry to encourage knowledge creation and innovation
- Document and promote success stories through Canadian case studies

**2017**
- Support constituent organizations through coaching and strong leadership
- Provide accreditation for institutions
- Establish a national benchmarking effort
- Provide certification for individuals
- Review BIM Standards and Guidelines
- Develop and adopt standardized contracts that facilitate BIM implementation
- Use of delivery modes that foster collaborative project delivery environments
- Develop and maintain Canadian BIM standards and guidelines with international initiatives

**2020+**
- Develop specifications for Canadian BIM certifications
- Develop best practices and BIM body of knowledge
- Promote and maintain innovative and creative spaces and communities
- Develop and adopt standardized contracts that facilitate BIM implementation
- Maintain and communicate best practices and BIM body of knowledge
- Document and promote success stories through Canadian case studies
- Maintain buy-in and engagement from government sectors, private sectors and academia
- Robust and recognized certification and accreditation processes
- Align & maintain Canadian BIM standards and guidelines with international initiatives
- Widespread and consistent client demand
- Continuous evaluation of community maturity
- Consistent metrics & measurement processes
- Ongoing deployment of programs and frameworks
- Prevalence of collaborative project delivery modes

**Desired state:**
- Broad industry support and full engagement of government sectors, private sectors and academia
- Constant reporting of success stories, lessons learned and best practices
- Complete and coherent toolkits
- Unified software platforms
- Rigorous certification standards, data exchange definitions and protocols
- Defined and accepted educational standards
- Integrated educational programs
- Robust and recognized certification and accreditation processes
- Widespread and consistent client demand
- Ongoing deployment of programs and frameworks
- Prevalence of collaborative project delivery modes
- Constant progression of BIM use in the Canadian AECOO community
- Maintained: Standards, Guidelines and Protocols

**Engage:**
- Foster engagement from government, industry and academia by promoting BIM in Canada.
- Document and promote success stories through Canadian case studies
- Foster the use of BIM in collaborative project delivery environments that foster the use of BIM in the Canadian AECOO community.
- Support constituent organizations through coaching and strong leadership
- Maintain buy-in and engagement from government sectors, private sectors and academia
- Robust and recognized certification and accreditation processes
- Widespread and consistent client demand
- Continuous evaluation of community maturity
- Consistent metrics & measurement processes
- Ongoing deployment of programs and frameworks
- Prevalence of collaborative project delivery modes
- Constant progression of BIM use in the Canadian AECOO community
- Maintained: Standards, Guidelines and Protocols

**Educate:**
- Develop and communicate a national BIM strategy
- Develop a reference curriculum for BIM education in Canada
- Develop BIM training packages for AECOO community stakeholders
- Develop metrics and Key Performance Indicators for consistent performance and capability assessment
- Develop a maturity model/capability assessment tool
- Maintain and communicate best practices and BIM body of knowledge
- Foster the use of BIM in collaborative project delivery environments that foster the use of BIM in the Canadian AECOO community.
- Support constituent organizations through coaching and strong leadership
- Maintain buy-in and engagement from government sectors, private sectors and academia
- Robust and recognized certification and accreditation processes
- Widespread and consistent client demand
- Continuous evaluation of community maturity
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- Ongoing deployment of programs and frameworks
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- Maintained: Standards, Guidelines and Protocols

**Develop:**
- Develop national BIM Standard
- Develop BIM Guidelines (Practice manuals, Toolkits, etc.)
- Develop BIM training packages for AECOO community stakeholders
- Develop metrics and Key Performance Indicators for consistent performance and capability assessment
- Develop a maturity model/capability assessment tool
- Maintain and communicate best practices and BIM body of knowledge
- Foster the use of BIM in collaborative project delivery environments that foster the use of BIM in the Canadian AECOO community.
- Support constituent organizations through coaching and strong leadership
- Maintain buy-in and engagement from government sectors, private sectors and academia
- Robust and recognized certification and accreditation processes
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**Deploy:**
- Create and implement collaborative project delivery environments that foster the use of BIM in the Canadian AECOO community.
- Provide a platform to allow maturity modeling and capability assessment of the AECOO community
- Establish partnerships between academia and industry to encourage knowledge creation and innovation
- Document and promote success stories through Canadian case studies
- Maintain buy-in and engagement from agencies, professional associations and stakeholders
- Maintain and communicate best practices and BIM body of knowledge
- Foster the use of BIM in collaborative project delivery environments that foster the use of BIM in the Canadian AECOO community.
- Support constituent organizations through coaching and strong leadership
- Maintain buy-in and engagement from government sectors, private sectors and academia
- Robust and recognized certification and accreditation processes
- Widespread and consistent client demand
- Continuous evaluation of community maturity
- Consistent metrics & measurement processes
- Ongoing deployment of programs and frameworks
- Prevalence of collaborative project delivery modes
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**Evaluate:**
- Create and implement collaborative project delivery environments that foster the use of BIM in the Canadian AECOO community.
- Provide a platform to allow maturity modeling and capability assessment of the AECOO community
- Establish partnerships between academia and industry to encourage knowledge creation and innovation
- Document and promote success stories through Canadian case studies
- Maintain buy-in and engagement from agencies, professional associations and stakeholders
- Maintain and communicate best practices and BIM body of knowledge
- Foster the use of BIM in collaborative project delivery environments that foster the use of BIM in the Canadian AECOO community.
- Support constituent organizations through coaching and strong leadership
- Maintain buy-in and engagement from government sectors, private sectors and academia
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**Sustain:**
- Adapt and maintain the transition to BIM and collaborative project delivery practices within the Canadian AECOO community.
- Document and promote success stories through Canadian case studies
- Maintain buy-in and engagement from agencies, professional associations and stakeholders
- Maintain and communicate best practices and BIM body of knowledge
- Foster the use of BIM in collaborative project delivery environments that foster the use of BIM in the Canadian AECOO community.
- Support constituent organizations through coaching and strong leadership
- Maintain buy-in and engagement from government sectors, private sectors and academia
- Robust and recognized certification and accreditation processes
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