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e-CTD Compliance A Canadian Industry Perspective



e-CTD Symposium - April 2014 - Toronto

AGENDA

- 1. Context e-CTD Landscape
- **2.** The Shift A New Paradigm Impact – Response – Interdependencies
- **3.** A New Regulatory Dimension Structure – Lifecycle Management – Formatting
- **4. Complying to the e-CTD Guidance** External & Internal Alignment
- **5. Looking Forward** Expectations & Involvement

1. CONTEXT e-CTD Landscape



General Benefits from e-CTD Adoption

EFFICIENCY







Lifecycle Management submissions

Savings paper, supplies, shipping...





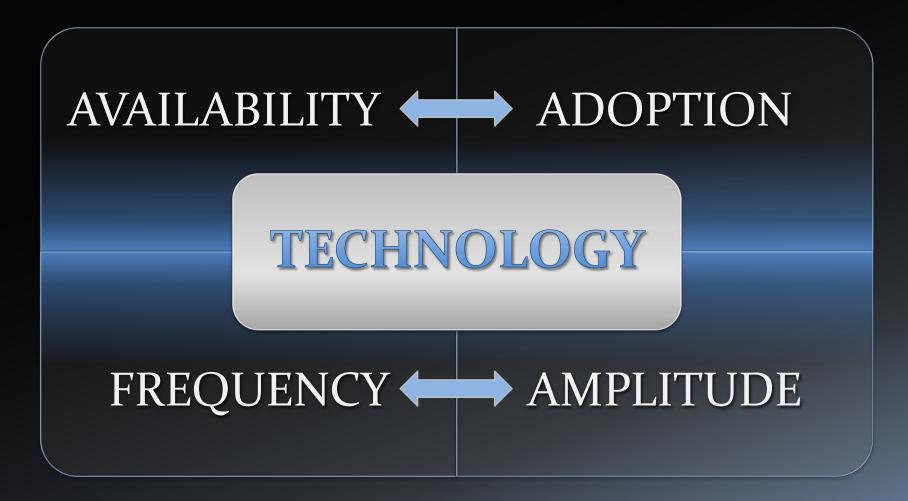
Global Submissions



2. SHIFTING TO e-CTD -A New Paradigm



2.1 Impact Moderators



2. THE SHIFT – A New Paradigm

2.2 Impact Flow Model

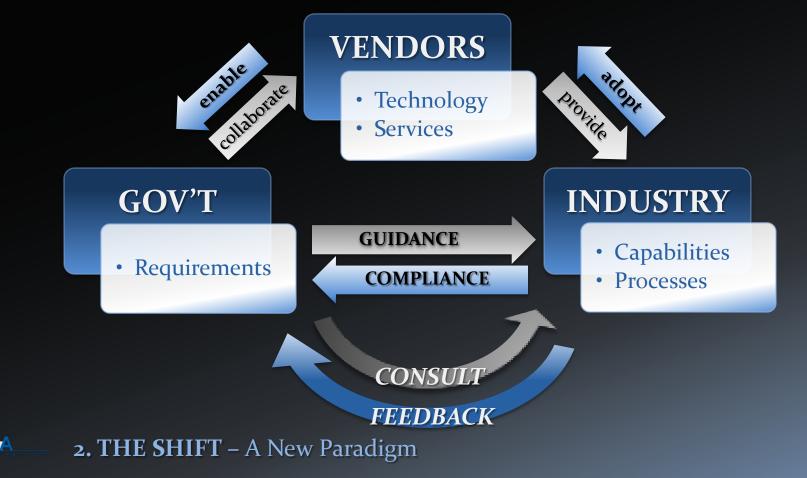
e-CTD Era [A] – Past & Present





2.2 Impact Flow Model

e-CTD Era [**B**] – Shifting & Future



2.3 **Response to Changes**

INCREMENTAL

DISRUPTIVE

Scope of Accepted Submissions

New CESG Gateway

New Validation Rules

RPS/e-CTD v4.o

ADJUST PROCESSES

ACQUIRE CAPABILITIES



2. THE SHIFT – A New Paradigm

2.4 Interdependency Dynamics





3. A NEW REGULATORY DIMENSION



3.1 Submission Structure

DTD/Schema & Validation Rules

e-CTD implementation has developed a new set of challenges within Industry



- specific, defined submission structure
- clearly established set of validation rules



technical specifications for structure & formattingspecialized publishing tools (eSMS) required



- diligent use of metadata in XML context
- compliance requires technical understanding



3.2 Lifecycle Management

Documents & Sequences

e-CTD adds a new layer of complexity with lifecycle management

- Specific rules ADD/REPLACE/DELETE
- Challenging to interpret & apply improves mostly through experience & best practices



- Significant downstream impacts in subsequent sequences
- Adding/deleting SUBNODES, modifying ATTRIBUTES, etc...
 - extensive rework to fix



- Only changes reflected in "INDEX.XML" are visible for the regulatory authority in its viewing tool
- What is shown on the Industry side may not be what HC sees



3.3 Document Formatting

Previously an internal process – now needs to conform to e-CTD standards



- Global complexity & variability of formatting specifications
- Challenges managing concurrent compliance to e-CTD requirements for different health authorities
- DTD vs Schema, different PDF versions, bookmarking and hyperlinking rules, etc...



- Modifications to documents requirements (format and/or content) sometimes required to comply with e-CTD
- May conflict with internal procedures (e.g. protected PDF files)



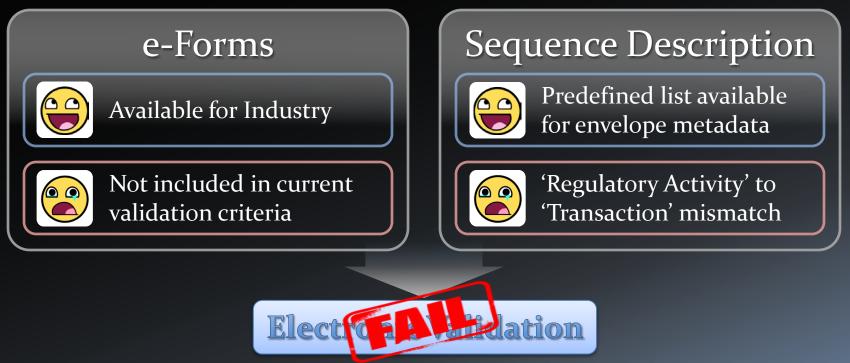
4. COMPLYING TO THE e-CTD GUIDANCE



4.1 External Alignment

Regulatory Requirements Vs. Validation Criteria

Industry attempts to comply with regulatory requirements are limited by the validation criteria





. COMPLYING TO THE e-CTD GUIDANCE

4.1 External Alignment

e-CTD Guidance Vs. Regulatory Review Industry has to comply with both e-CTD guidance and reviewers requirements concurrently

e-CTD Guidance

Provide documents in specific format(s)

Generate one sequence per regulatory transaction

Apply proper lifecycle operations to documents

Reviewer Requests

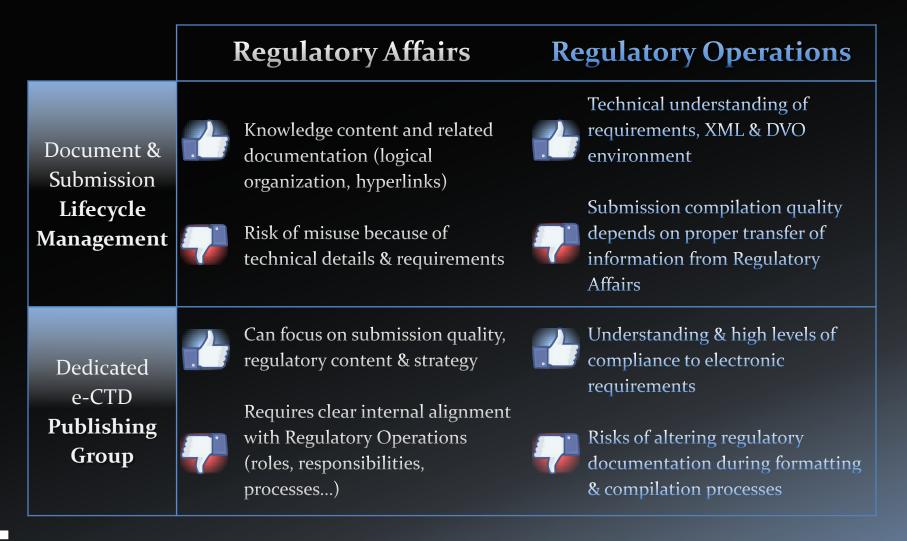
Provide documents in formats not specified by the guidance

Combine multiple regulatory transaction in a single sequence

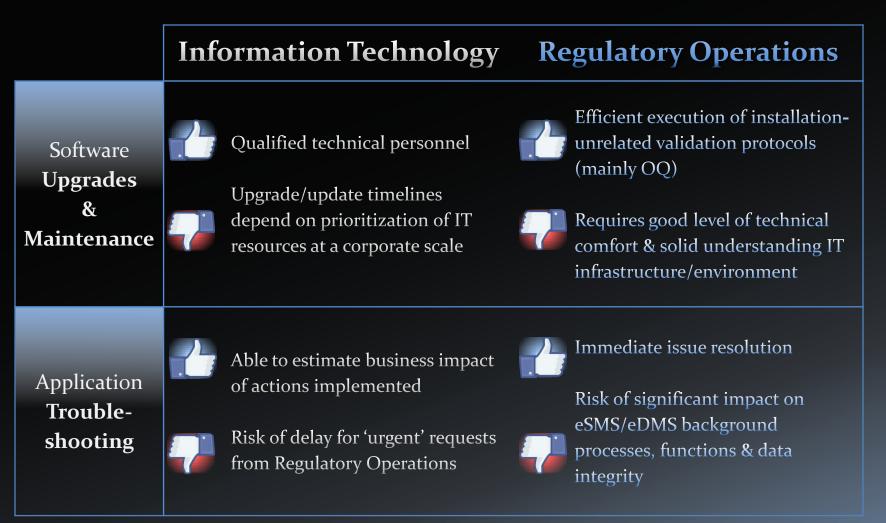
Submit documents under an incorrect lifecycle operation



4.2 Internal Alignment



4.2 Internal Alignment



4. COMPLYING TO THE e-CTD GUIDANCE

5. LOOKING FORWARD -Expectations & Involvement



Expectations & Involvement



- Guidance documents that reflect current requirements
- Increased scope of e-CTD activities:
 - updated validation rules
 - upcoming regulatory activities and transactions accepted in eCTD format (e-CTA, e-DMF...)
 - new initiatives (eForms, eSignatures, CESG deployment)

AN ONGOING & EVER-EVOLVING PROCESS

- Ultimately applicable to both for HC as well as Industry
 - Best approach for the e-CTD ecosystem:
 - be part of the change process
 - voice our reality while we work to establish a framework that is effective and efficient for both parties
 - Communicate with GERA members directly, or through Industry associations



Health Canada

tronic Regulatory Activities

BIOTECanada

CGP

Q&A



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Thank You!

