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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...





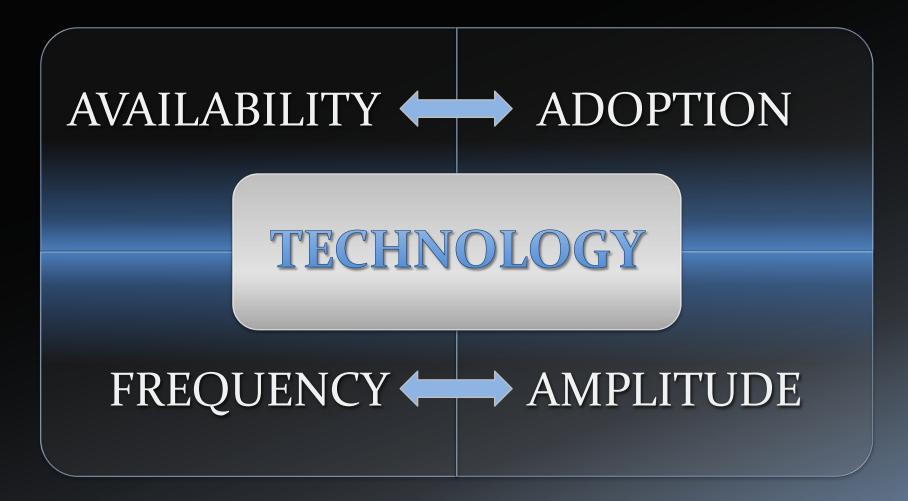
**Global Submissions** 



# 2. SHIFTING TO e-CTD -A New Paradigm



#### 2.1 Impact Moderators



2. THE SHIFT – A New Paradigm

## 2.2 Impact Flow Model

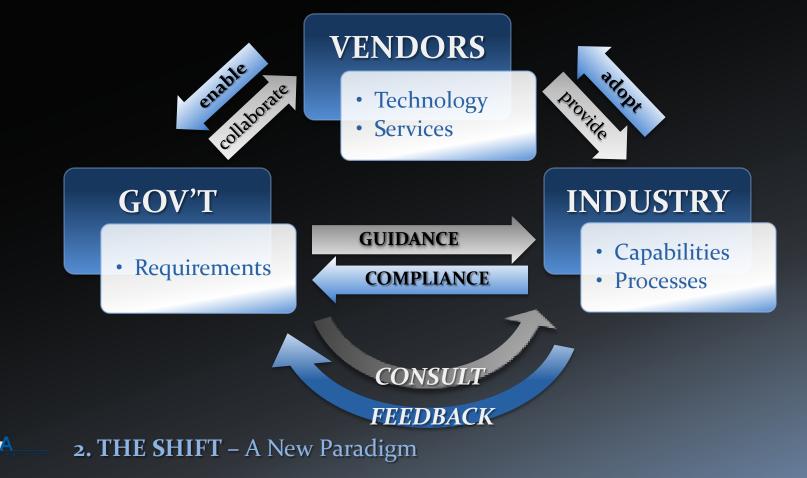
#### e-CTD Era [A] – Past & Present





#### 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)



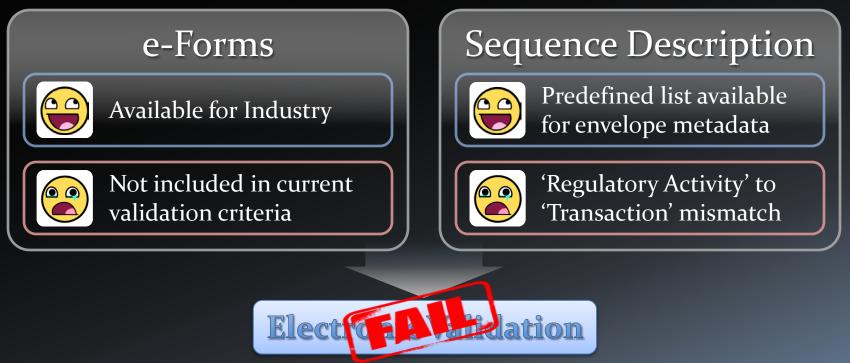
# 4. COMPLYING TO THE e-CTD GUIDANCE



## 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**

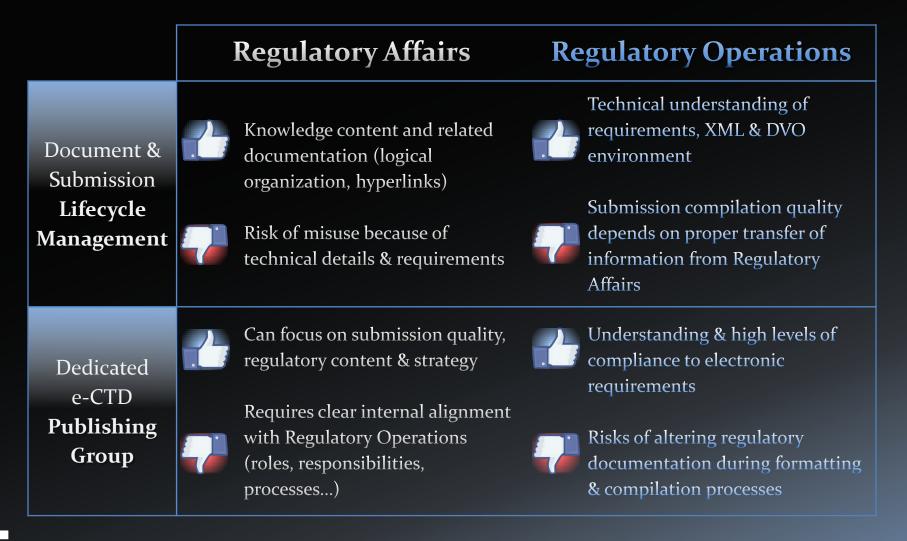
Provide documents in formats not specified by the guidance

Combine multiple regulatory transaction in a single sequence

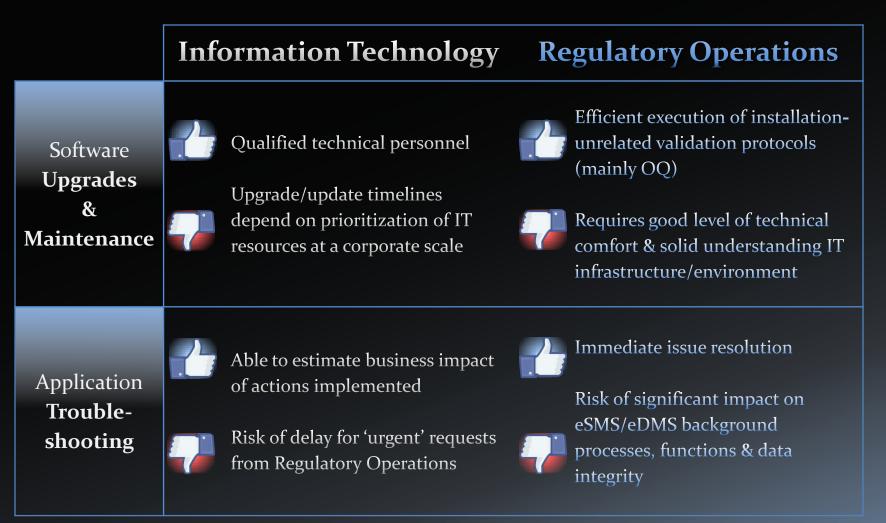
Submit documents under an incorrect lifecycle operation



# 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!

