SunTec DIGITAL

EDUPUB

EDUPUB Solutions from SunTec Digital

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What is EDUPUB?

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- EPUB 3 for educational content
- EDUPUB enables educational content of all types to be reliably distributed and interchanged between a wide variety of devices and platforms.
- Connecting the ecosystem via standards like QTI (Question and Test Interoperability), LTI (Learning Tools Interoperability), and the Caliper Analytics Framework.
- Providing the Open Web Platform standards — XML, HTML, HTTP, CSS, and many others — for easy communication and interchange.

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What's the rationale for this approach?

- Leverage existing open standards, including HTML5, CSS3, EPUB 3, and best practices of the Open Web.
- Create content that is semantically structured and relevant for education.
- Give equal weight to metadata and structural standards.
- Create content that is highly accessible.
- Support structured authoring and assembly ecosystems.
- Support collection of meaningful and useful learning data.

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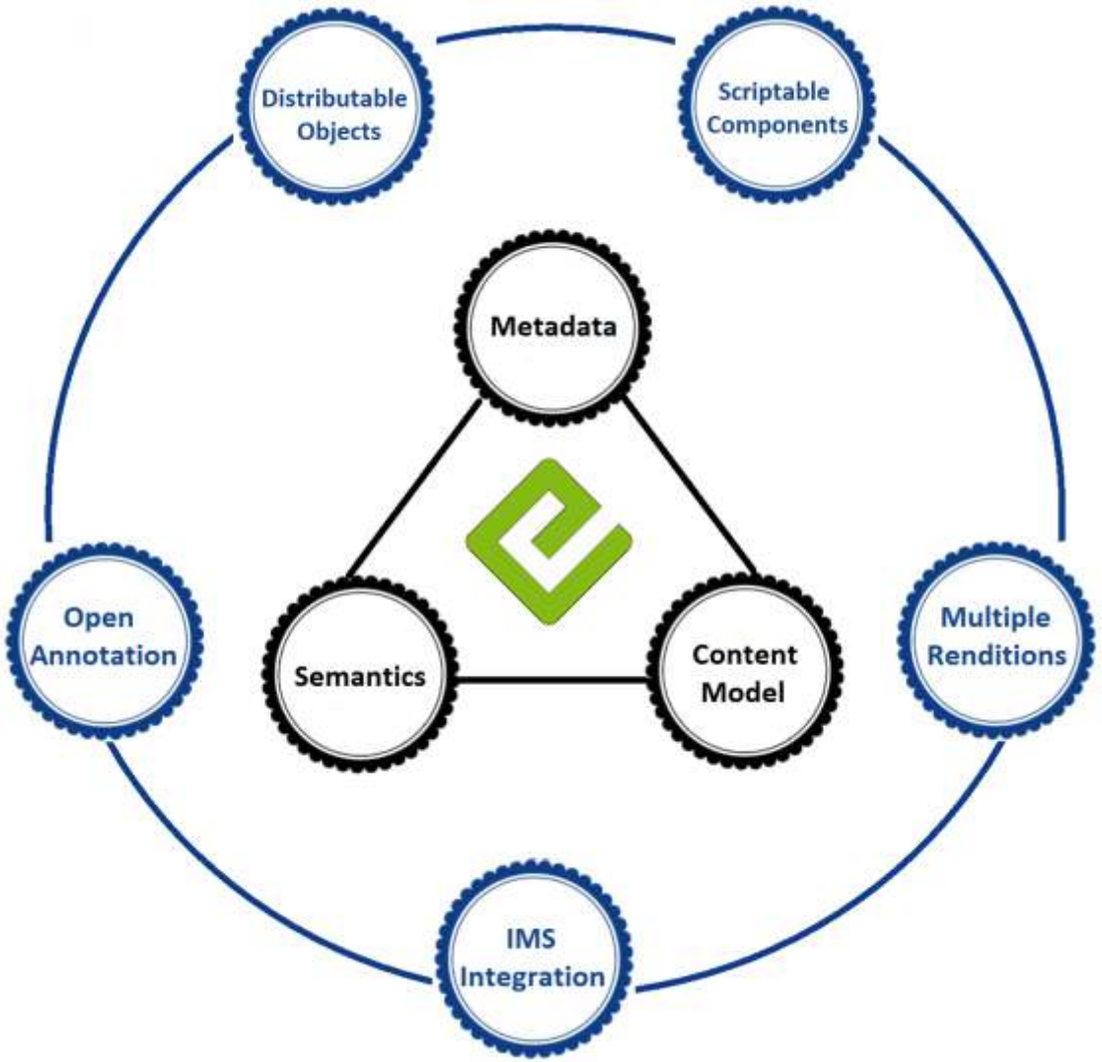
EDUPUB Universe



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Why is EDUPUB based on the EPUB 3 standard?

- **Reducing production pain points:** It does not require publishers to develop separate workflows to create a completely different eBook format for their educational content

- **Reducing retailer limitations:** A retailer that supports EPUB 3 but does not specifically support EDUPUB will still be able to sell the file because it is a valid EPUB 3 document and should have “graceful fallbacks” to present content effectively.

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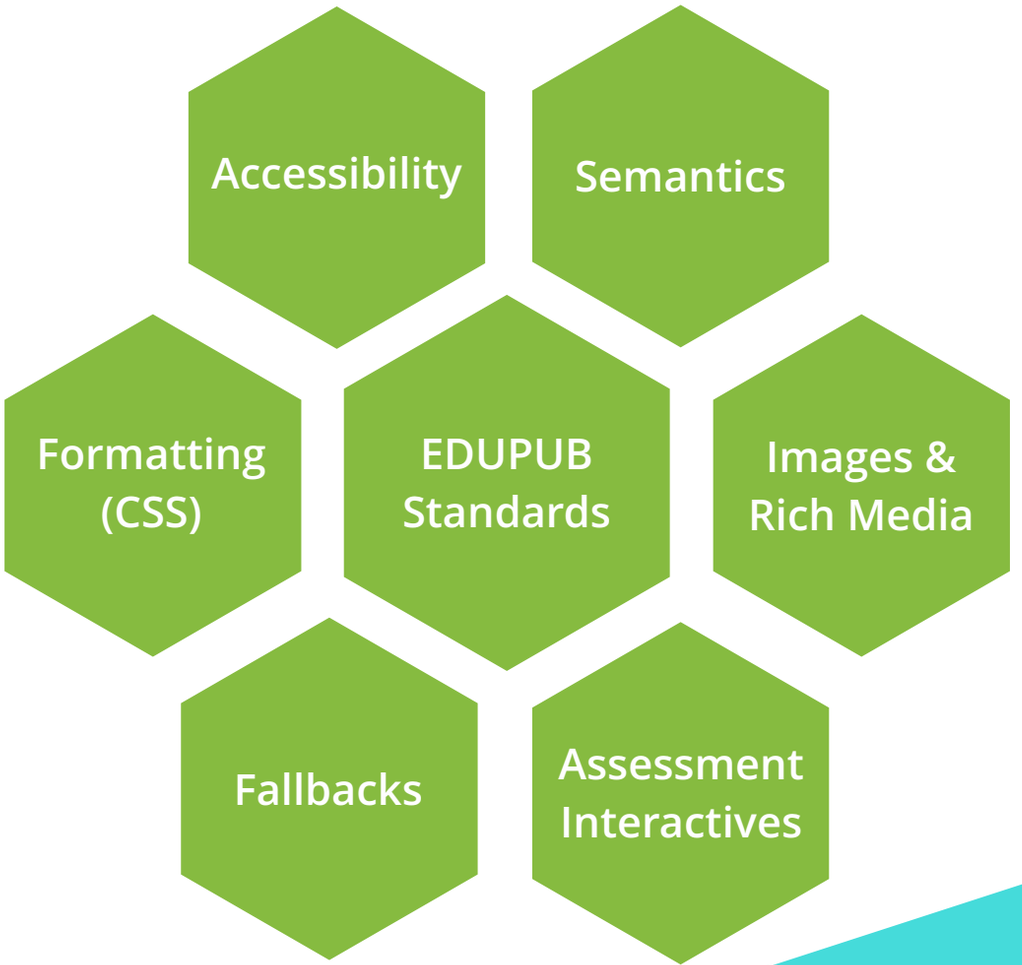
What are the key features of EDUPUB?

- Metadata
- Structure of content, including “remixability”
- Scriptable components
- Open Annotations
- LMS integration



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1. Metadata

Educational metadata

Established on schema.org educational properties, such as:

- Type of audience: professional, corporate, schools, etc.
- Type of learning resource: activity, discussion or assessment based
- Age Range: 5-10, 10-15, 15-20

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1. Metadata

Accessibility metadata

Established on schema.org accessibility attributes such as:

- **Accessibility features: alternative text, print page numbers**
- **Accessibility control: full keyboard control, full voice control**

Teacher editions and guides

Capability to identify that an EDUPUB eBook is

- **A teacher's edition (representing superset of work that students are using)**
- **A teacher's guide (providing general guidelines about the curriculum)**

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2. Structure and “repurposability”

Structure of HTML content

- Implement content that is well structured so as to have a reflowable EPUB
- Promote the use of structured semantics such as footnote, assessment, etc

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2. Structure and “repurposability”

Why there is a need for well-structured content?

- Well-structured and semantically rich content generates predictability for both humans and machines and it also facilitates remixability.
- How a publisher can detect renewable objects in EPUB is defined in EPUB Distributable Objects specifications.

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3. Scriptable Components

- Communication application program Interface (API) as well as packaging for interactive constituents in EPUB
- Effort to make it easier for publishers and reading systems
- Incorporation of 3rd party constituents
- Enhanced security as well as performance

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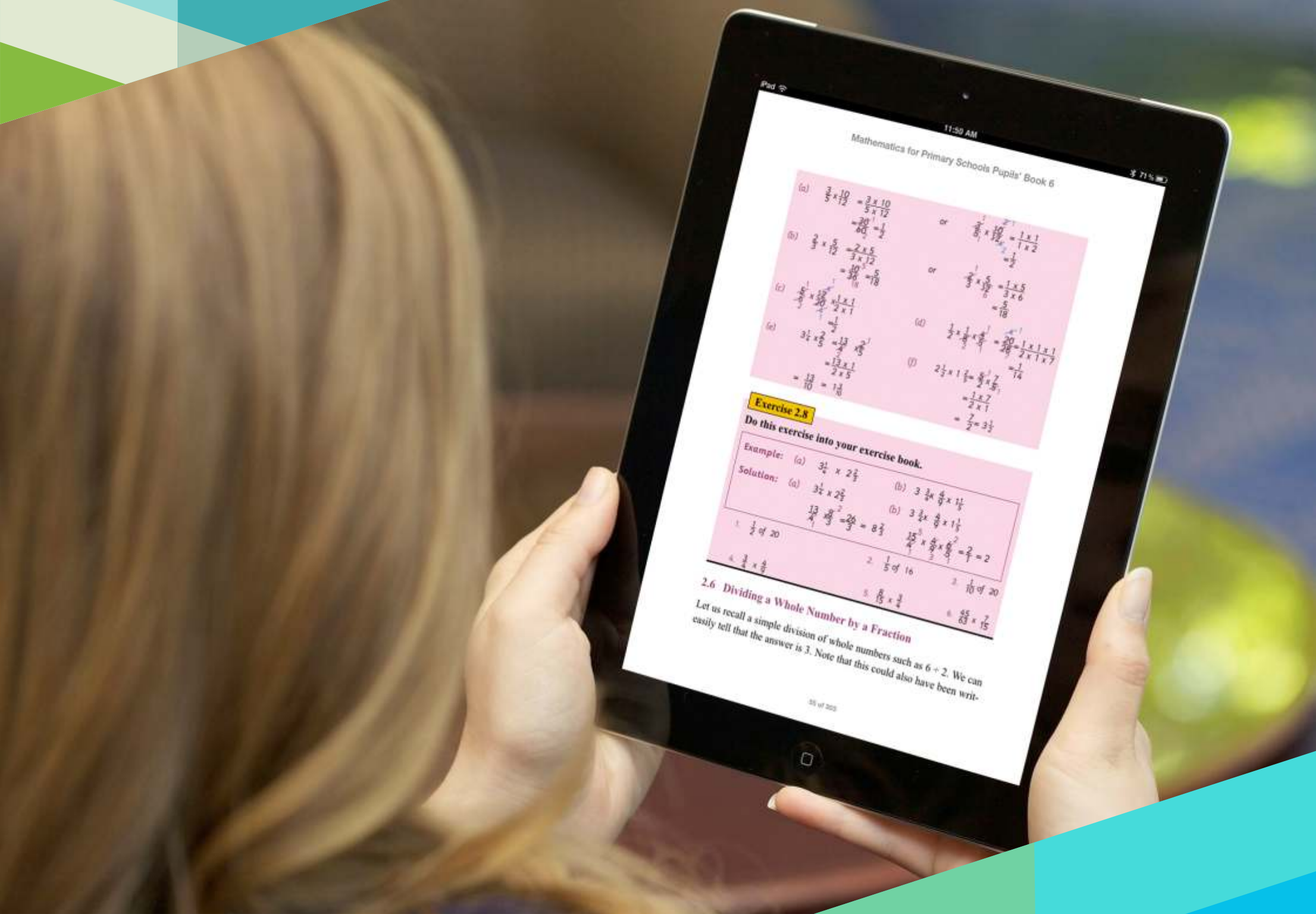

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4. Open Annotations

- Crucial missing element: format for interchange
- EPUB Adaptation of W3C Open Annotation
- The EPUB adaptation also facilitates bundling of annotations collected
- Defining target audience

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5. LMS integration

IMS Learning Tools Interoperability (LTI) and Outcomes

- At present, EDUPUB defines Reading System Conformance and content requirements for LTI 1.2/2.0
- Assistance for Caliper and QTI at higher conformance levels (TBD)

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6. Utilizing other EPUB attributes

Navigation

- The EPUB Navigation document used for efficient navigation for all users

EPUB multiple renditions

- Bundling of numerous versions of the content is allowed such as fixed, reflowable, etc.
- Examples: reflowable/fixed, multiple languages

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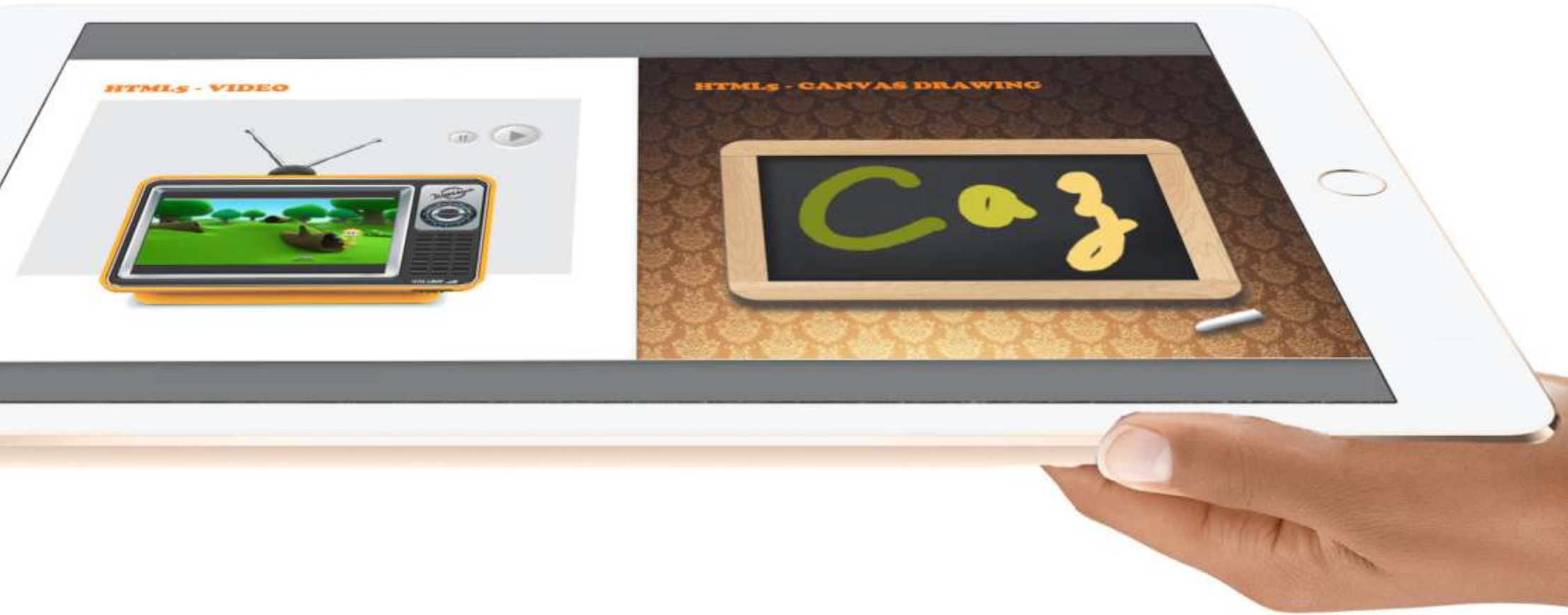

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Leverage Our EDUPUB Solutions for Developing & Converting Learning Content

Advanced features and functions	Economies of scale in relation to design, development, and distribution of digital content in EPUB format.	Consistent presentation across devices	Elimination of variant products for different platforms
Easy LMS integration	Improved assessments, analytics, and outcomes	Easily repurposable content	Facilitated adaptive learning

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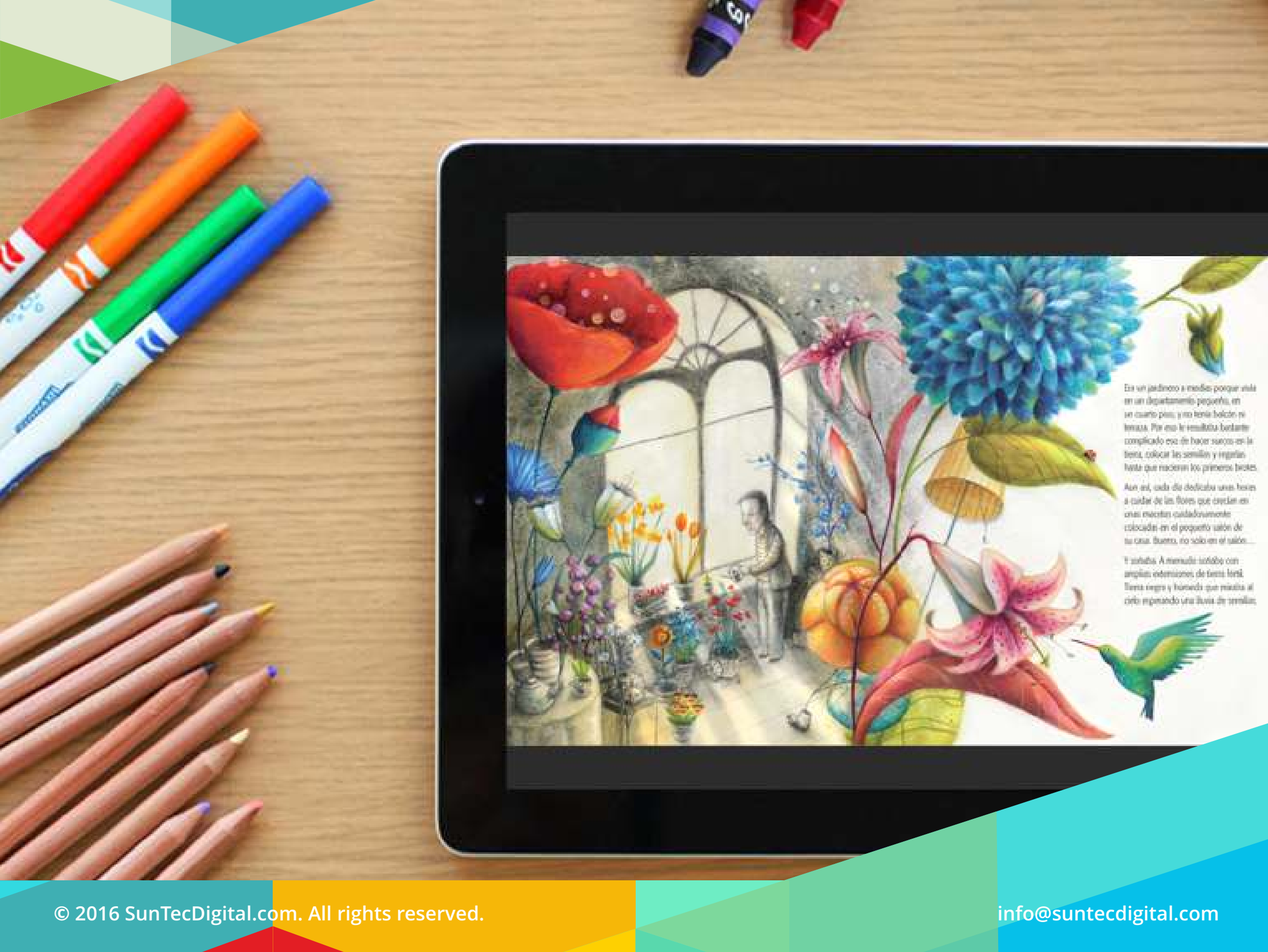

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Our industry veterans utilize high-end digital and mobile technologies to cater to the unique needs of information providers in IT, publishing, academic, healthcare, insurance, and financial services sector.

Having been in the industry for last 15+ years, we help clients right from converting and producing eBooks through to publishing & distributing content across diverse platforms, and consequently extending their reach as well as improving content profitability.

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Selected Representative Clients

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Thank You

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