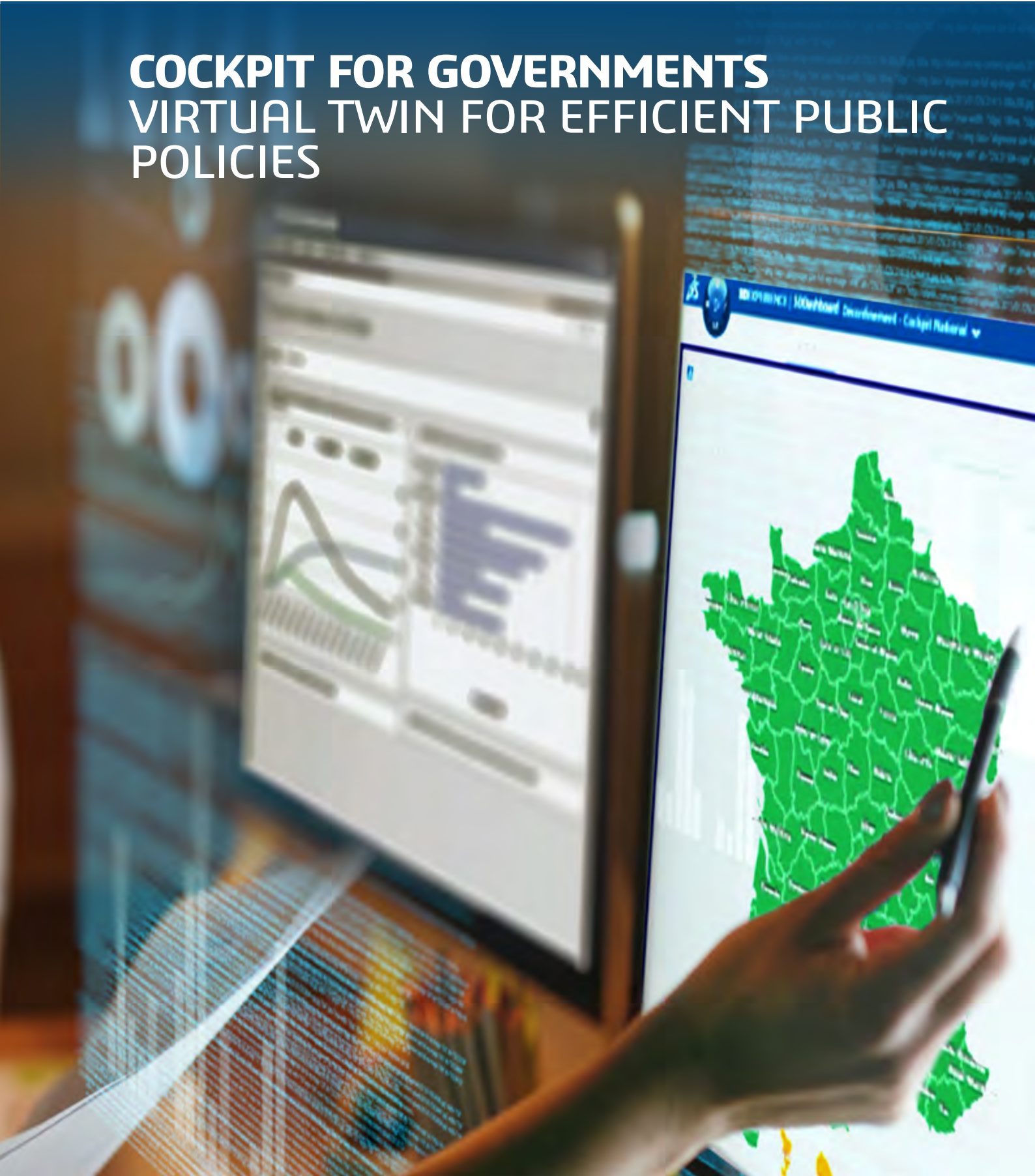


COCKPIT FOR GOVERNMENTS VIRTUAL TWIN FOR EFFICIENT PUBLIC POLICIES



EXECUTIVE SUMMARY

OUR UNDERSTANDING

In a situation of crisis, governments often lack critical real-time information. It is sometimes a challenge to access the full picture necessary for decision-making because information is siloed across different ministries and public agencies (economy, industry, health, security, etc.). Without this holistic view, analysis is hampered and decisions delayed in situations where every hour counts.

Solutions to enable concertation with all stakeholders, including the private sector and research institutes, around a common view of the situation could help governments make key decisions in crisis time. Besides, citizens' confidence in governments is clearly intertwined with governments' ability to decide.

What governments need in a context of crisis are solutions that enable them to:

1. **Understand the situation**
2. **Decide**
3. **Collaborate.**

Leaders and decision-makers need powerful support to build a holistic view of complex situations happening on their territory. We believe that a science-based approach to decision-making can help provide this view. These solutions are useful both during crisis and in "normal" times to help stakeholders decide and implement public policies; governments can therefore switch quickly and smoothly to a crisis mode whenever needed.

HOW DASSAULT SYSTÈMES® CAN HELP

With decades of experience supporting industry, Dassault Systèmes helps millions of users to manage complexity and plan for the future.

Via its **3DEXPERIENCE®** platform, Dassault Systèmes can provide a virtual twin of a territory to help governments aggregate data in one place, model and visualize the situation, involve the right experts, simulate complex scenarios, analyze and validate options, and communicate quickly and clearly to various stakeholders.

Our team is prepared to jointly engage with governments and public authorities to identify the needs, map and model existing systems.



“That digital model once integrated into the 3DEXPERIENCE platform becomes a foundation that all stakeholders of the city both internal and external can access to simulate plan and manage the city in a transversal and collaborative way.”

Rennes metropole – Christelle GIBON
Head of innovative projects - Geographic Information Service

OUR SOLUTION

Dassault Systèmes® solutions: **3DEXPERIENCE Cockpit – Understand, Decide & Collaborate**



KNOWLEDGE SHARING

- Connect all stakeholders by creating virtual “communities”
- Facilitate the flow of information
- Maximize usage of collective intelligence



MONITORING AND COMMUNICATION

- Monitor worldwide web
- Understand perception of public opinions and trends
- Adjust communication plan



IMPROVED LOGISTICS

- Implement logistics solutions for critical assets and goods management



FIRST TIME RIGHT

- Make informed decisions and implement them
- Improve coordination and follow up on the activities
- Secure project realization on time



POWERED BY 3D DIGITAL TWIN

- Leverage a 3D digital twin to improve common understanding of the situation
- Focus on specific assets management



SITUATION AWARENESS

- Create a shared and trustable multi-source data referential
- Fusion and cross databases to create new representations



1 SITUATION AWARENESS

The first step before being able to decide is to understand clearly all parameters and information that could affect in a way or another the decision about to be made. Data is a powerful source of information if it is analyzed, visualized and shared easily.

Using our expertise in data analytics and artificial intelligence, we empower the **3DEXPERIENCE** cockpit with the ability to deal with almost any kind of data sources (internal or external, structured and unstructured). The data is accessible under one single platform and decision-makers can perform cross-domain analysis (economy, health transport, security...) and obtain live, updated, comprehensive views of the situation across time (past, present, future) and space (flexibility of the geographical scale).

The scope of this **3DEXPERIENCE** cockpit can vary from international to local monitoring, from crisis management to long-term policies implementation.

2 POWERED BY 3D DIGITAL TWIN

3D is a universal language. Having the ability to relate the information to a virtual twin of the territory is a powerful way to ensure everybody understands what is at stake. From critical assets management to urban planning challenges to improve the citizens' security or quality of living, 3D representation of the territory combined with advance data analytics is a powerful solution for public authorities.

3 FIRST TIME RIGHT

Once the situation is understood thanks to the data uploaded in the platform and transformed into an actionable source of information, decisions can be made. Decision-makers can easily analyze and validate options.

The **3DEXPERIENCE** cockpit natively embarks a set of tools to facilitate communication between stakeholders and the definition of actions to be performed, from their attribution to a specific owner to the full traceability of progression. The transition from decision to action is simplified and the accountability as well as the coordination of the mission are improved.

This holistic view with real-time data helps public authorities monitor the multiplicity of projects they need to undertake at the same time.

Our **3DEXPERIENCE** cockpit comes with a secured administration protocol, allowing easy management of access rights.

4 IMPROVED LOGISTICS

Once the **3DEXPERIENCE** cockpit is settled, it can be leveraged to make informed logistics decisions for critical assets and goods management. Planning for the production and distribution of equipment in the most critical areas, considering all existing restrictions (such as road and airport closures, contamination of health agents, distances) is

essential to improve the response time and resilience.

As the circumstances can change with new daily variables in coping with the crisis it is equally important to be able to perform instant re-planning.



5 KNOWLEDGE SHARING

Enhanced collaboration is at the heart of what Dassault Systèmes solutions can achieve. Next to the data visualization and project planning capabilities, we have developed virtual spaces for collaboration that we call "communities". In a "community", key stakeholders involved in a project can exchange news, ideas, and recommendations with full control of the access rights. In fact those communities can be "public", "private" or "secret" according to the level of the confidentiality and the audience involved. This collective intelligence tool strengthens the decision-making process and contributes to create a collaborative dynamic even beyond a single organization, as it can be opened to a wider external community if needed.

6 MONITORING AND COMMUNICATION

Monitoring the web brings additional and valuable information to the decision makers to understand a situation, measure the impact of a taken decision or acquire a better understanding of what public opinions think.

Combined with all other tools the **3DEXPERIENCE** cockpit includes a web crawling engine (NETVIBES EXALEAD) that allows to build dynamic representations of what can be found around a given question on the worldwide web.

This tool performs automatically a series of analytics on the pinpointed articles, from geographical identification of sources, to trend or sentiment analysis with the ability to go back to the source of the article. This search engine is completely customizable in terms of what can be asked to search for according to the urgency of the moment or for structural monitoring.

DIRECT BENEFITS FOR ORGANIZATIONS

Dassault Systèmes customers have achieved significant benefits in the areas of operational efficiency and innovation.

BENEFITS INCLUDE:

1. Improve the efficiency in implementing public policies thanks to the ability to access to the right information and the right time and adjust the strategy dynamically.
2. Breakdown the organizational and data silos thanks to enhanced coordination and sharing of information within the whole organization.
3. Improve the collaboration between public authorities and public/private partners by connecting cross-disciplinary experts in a shared collaborative platform.
4. Increase internal (civil servants) and external (citizens) trust thanks to a better communication based on unbiased and up-to-date data.
5. Increase the agility and resilience of the organization thanks to solutions able to scale up and change their scope of analysis on demand.
6. Ensure confidentiality and security of the data and process thanks to a secured Cloud (Outscale) and full control of access rights to define dynamically who can see what.
7. Capitalize on existing tools and expand the digital transformation of the organization.



WHY DASSAULT SYSTÈMES

VALUE OF PARTNERING WITH DASSAULT SYSTÈMES

Dassault Systèmes offers a strategic partnership with unparalleled experience in transforming organisations in highly complex environments to assist with innovation transformation. Now more than ever, public organizations and stakeholders need a trusted, strategic partner that understands their vision and shares their passion for what is possible in today's rapidly changing global and technology-driven environment.

Dassault Systèmes, the **3DEXPERIENCE** Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating 'virtual experience twins' of the real world with our **3DEXPERIENCE** platform and applications, our customers push the boundaries of innovation, learning and production.

Dassault Systèmes' 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.

NEXT STEPS

Our team is prepared to jointly engage with you to identify high value opportunities, develop a benefit case and build an implementation roadmap aligned with your priorities. We propose initial reviews with key stakeholders to explain the opportunities Dassault Systèmes can bring to their organizations. At the conclusion of our findings, we propose an executive workshop to define the approach, scope, and timelines necessary to codify the opportunity potential and develop a roadmap for implementation.

Recommended next steps for the transformation journey:

1. Share and review Dassault Systèmes' value perspective with leaders and key stakeholders across the organization
2. Plan a Value Assessment to build a mutual understanding of your specific strategy and challenges. Confirm and clarify any specific objectives and initiatives as well as any barrier towards this achievement
3. Develop an agreed high-level implementation roadmap aligned directly to high value opportunities, with established KPIs to measure success and a robust business case to justify any required investment

Achieving this bold vision for transforming the approach to game-changing territory management will require significant focus and leadership commitment along with a strategic business partnership with a company like Dassault Systèmes that is committed to enabling a successful outcome. Dassault Systèmes brings unparalleled experience and a strong track record that will help you drive innovation, quality and excellence to deliver sustainable solutions and improve public policies efficiency.

Dassault Systèmes® is committed to enabling a successful transformation program with you. We look forward to growing the relationship and assisting you to achieve sustainable strategic objectives.



DASSAULT SYSTÈMES COMPANY PURPOSE



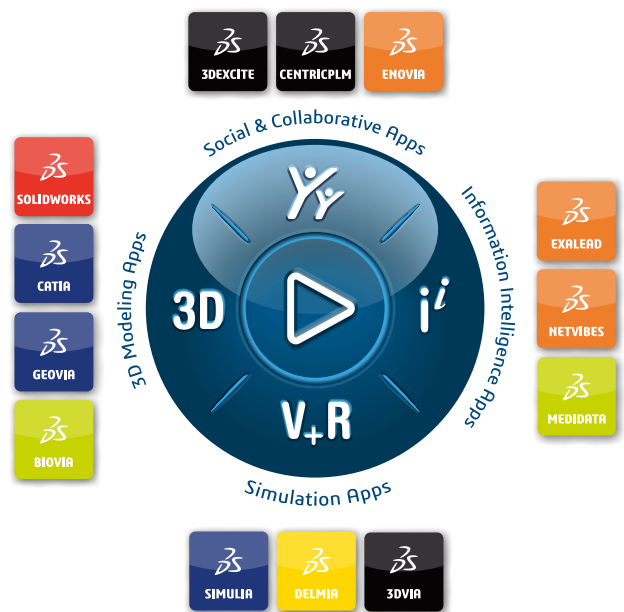
“Dassault Systèmes provides business and people with **3DEXPERIENCE** universes to imagine sustainable innovations capable of harmonizing product, nature and life.”

- Bernard Charlès
CEO DASSAULT SYSTÈMES

Our **3DEXPERIENCE®** platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

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