

SMEs – Important partners in F4E Supply Chain

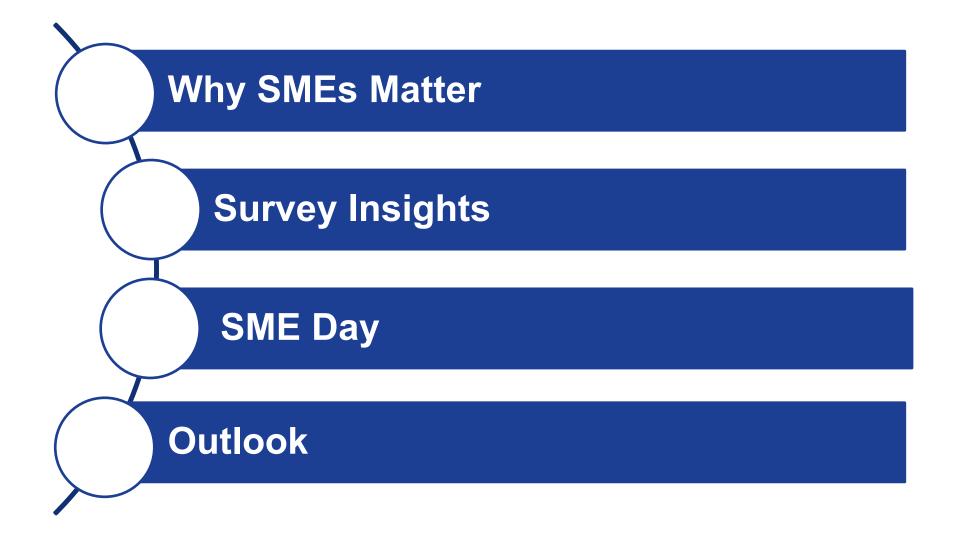
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> Kristel **TANS** – Head of PCSCF Department Anne-Kathrin **PREIS** – Senior Contract Manager













 99% of European businesses are Small and Medium-sized enterprises (SMEs)*

Company category	Staff headcount	Turnover		Balance sheet total	
Medium-sized	< 250	≤ € 50 M		≤€43 m	
Small	< 50	≤ € 10 m	Τ	≤€ 10 m	
Micro	< 10	≤€2 m		≤€2 m	

Source EU Recommendation 2003/361

- SMEs are at the heart of innovation and provide jobs for more than 85 million European citizens*
- SMEs play a crucial role in ensuring European competitiveness

"55% of SMEs in Europe flag regulatory obstacles and the administrative burden as their greatest challenge."



Importance of SMEs in F4E's supply chain





Testimonials from SMEs





Working on Big Science Projects boosts R&D and business network



Work on very specific & demanding technical requirements. Prepare manufacturing dossiers



New partnerships with Private & Public Sector (Universities, Research Labs)

Transpose high documentation standards to other projects across the globe



Increase of R&D, engineering knowledge & experience, and exposure to new technologies



Management of financial and project schedules for mid-term projects

F4E Industrial Policy & renewed vision





We develop talent and knowledge for the future fusion power plants in Europe



We focus on the construction and operation of ITER and other fusion projects



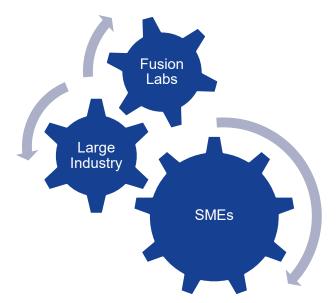
We help create a competitive European Fusion Industry

Strong collaboration between F4E, SMEs, Large Industry and Fusion labs to:

Objective 1 - Deliver Fusion Projects

Objective 2 - Broaden the industrial base for fusion in Europe

Objective 3 - Foster European innovation and competitiveness in key technologies



F4E Industrial Policy Implementation Plan



- 1. Reduce **financial entry barriers** for SMEs:
 - A. Ensure sufficient **liquidity** during contract execution (e.g. pre-financing)
 - B. Simplify **payment** procedures, reducing steps that cause delays and add complexity
- 2. Accept **financial guarantees** beyond those offered by commercial banks and consider direct engagement with EU financial institutions (with lower risk premium)
- 3. Improve **price revisions** clauses, assuming a higher fraction of the risk in case of high inflation
- 4. Set up structured **match-making** opportunities among SME and with large companies (i.e. integrators - small technology providers)

Recommended actions by

Industrial Policy Working Group

F4E Industrial Policy Implementation Plan

- 1. Minimize **administrative burden** for tender preparation & delivery acceptance
- 2. Provide templates, workshops and targeted training
- 3. Continue efforts on to improve **cashflow**: liquidity, guarantees, price revision
- **4. Benchmark** versus best practices in other BSO's (e.g. ESA, CERN)
- 5. Broaden dissemination of opportunities & promote SME contracts

Feedback from

Industrial Liaison Officer Network



SME Survey - Participation

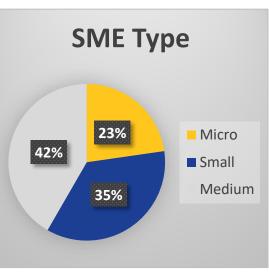




134 SME participated to the survey

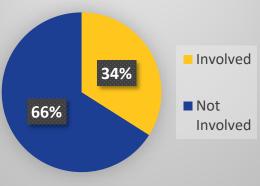
70 SME have responded to have a business relationship with F4E (incl. unsuccessful Tenderers)





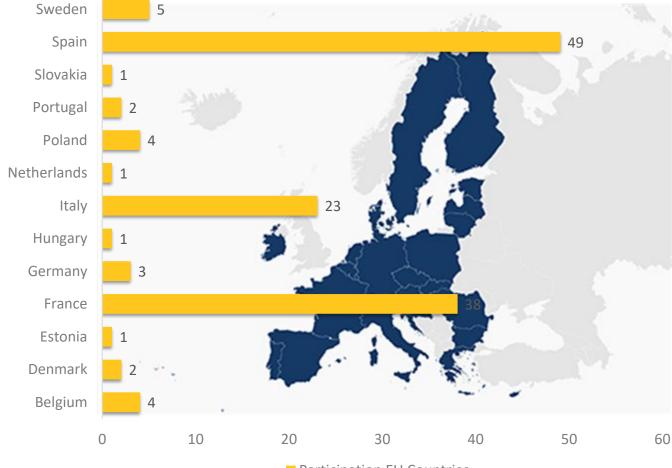
46 SME have responded to be involved in F4E contract execution activities (Contractor, Group Members and Subcontractor)





SME Survey - Participation





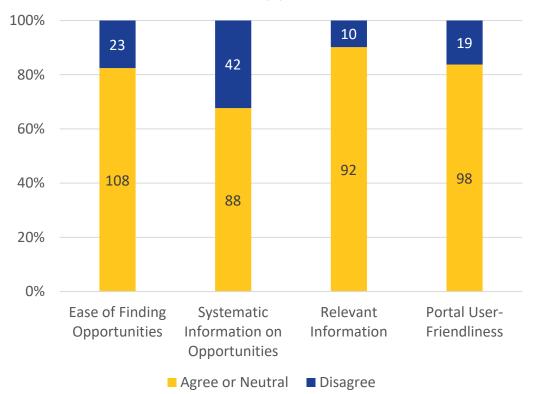
Participation EU Countries

INSIGHT

Collaborate with ILO Network to increase outreach to SMEs in countries that did not participate to the survey or do not have high involvement in F4E activities, through targeted SME info days

Pre-procurement Access to Opportunities





Access to Opportunities

While some SMEs find it easy to locate opportunities and feel wellinformed, there is a significant portion indicating inconsistent visibility of F4E's procurement opportunities

PROPOSED ACTION

Improve onboarding process for SMEs that lack established relationships with F4E to increase competitiveness and diversity of F4E supplier base

Procurement Submission & Tender Preparation



Preparing a tender poses significant challenges for many SMEs

PROPOSED ACTIONS

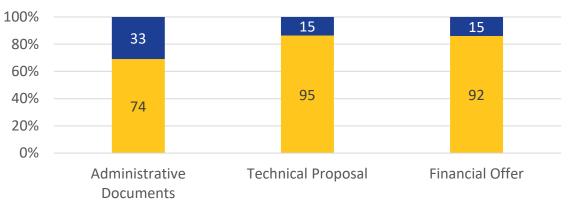
Reduce administrative burden (where possible), simplify requirements, and enhance support

Communicate **relevance** of the documents through **pre-tender workshops** or **resource toolkits** to reduce uncertainties and preparation time

100%274380%274360%786620%660%Simple SubmissionEffort to Prepare Tender
is Adequate

Agree or Neutral Disagree

Effort of Tender Preparation is Adequate



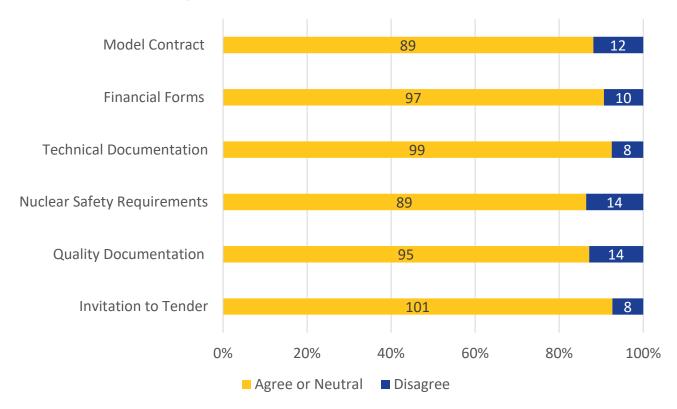
Agree or Neutral Disagree

Ease of Tender Preparation

Procurement Key Document Instructions



Key Document Instructions are Clear

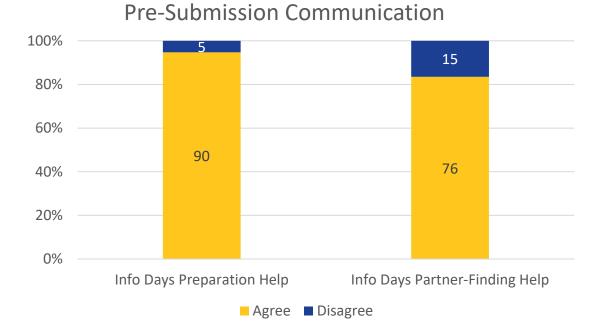


Positive feedback, with areas for further improvement in Quality documents, Nuclear Safety Requirements & Model Contract

Procurement – Process & Communication

Communication

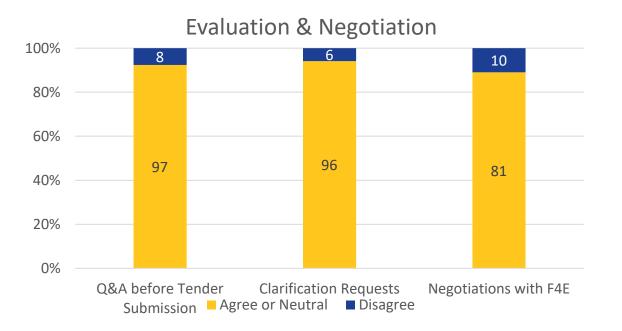




Information Days are effective, but could improve in helping SME find partners

PROPOSED ACTION

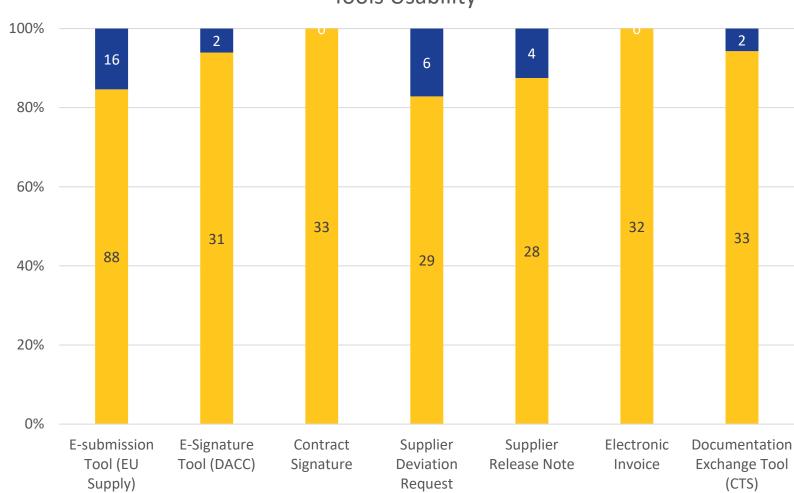
Establish more **networking opportunities** and promote **F4E partnership tool**



Effort spent on responding to clarifications & preparing/conducting negotiations is adequate and acceptable

F4E Tools Procurement & Contract Execution





Tools Usability

Positive feedback for Contract Signature & E-Invoicing

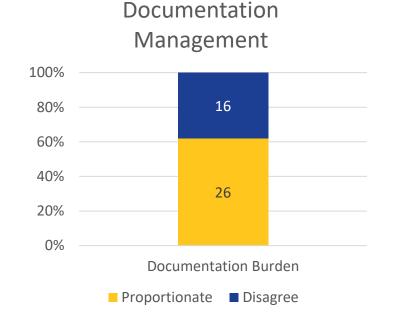
PROPOSED ACTION

Improve clarity of instructions during tender phase and availability of Helpdesk

The **Deviation and Release Note processes may benefit** from usability improvements

Documentation Management & Requirements

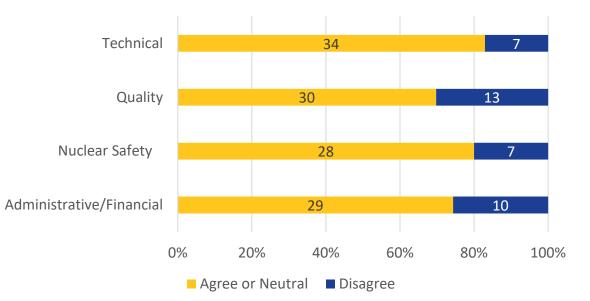




PROPOSED ACTION

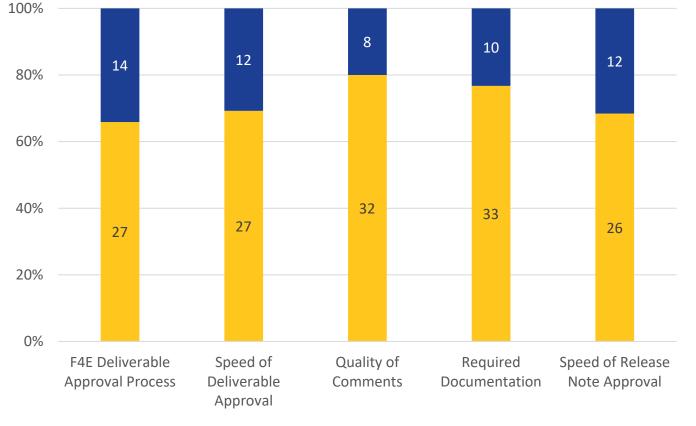
Investigate possibilities to streamline processes and provide support to reduce administrative load on SME with focus on Quality & Admin/Financial documentation SMEs raise concerns about documentation burden being disproportionate

Documentation Management



Deliverable Approval





Deliverable Approval Process Fluidity

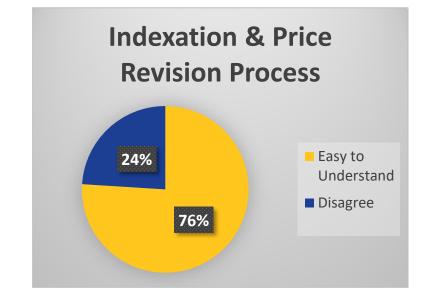
1/3 of SMEs raise concerns about F4E's deliverable acceptance process with focus on improving approval speed and reduction of required documentation

PROPOSED ACTION Clarify expectations and identify ways to speed up the approval process

Requirement Management & Price Revision





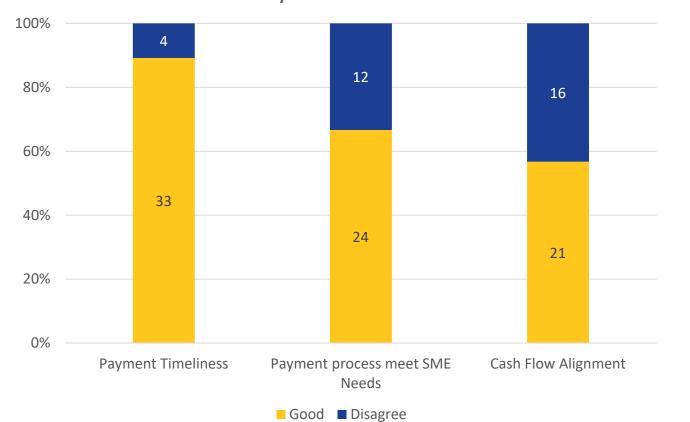


Improve requirement communication through **tiered documentation** (High-Level Summaries with visual aids and templates and appendices for in-depth information)

Improve guidance on price revision process; potentially through **simplified documentation** or SME **training**

Payment Process





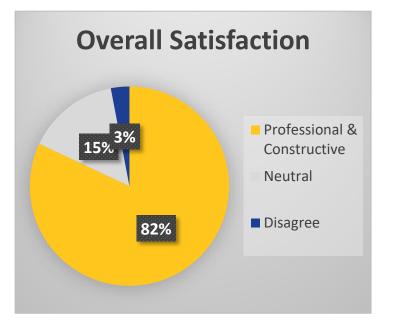
Payment Process

Satisfaction with payment timing

PROPOSED ACTION

Raise awareness within F4E to improve **payment process** and **alignment of SME cash flow**





Positive feedback from majority of SME's about their relationship with F4E 40% of SMEs underestimate the administrative effort in their tender and financial proposal





57% - Encourage collaboration between **large companies & SMEs**, e.g. create rules or incentives to encourage SMEs as subcontractors

37% - Make the **administrative burden** during **tendering proportionate to the complexity or value** of the resulting contract

33% - **Organize a regular SME day** to promote SME contracts, foster communication and share lessons learned, best practices on procurement between SMEs and organizations involved in fusion projects

32% - Enlarge dissemination of F4E business opportunities and linked organization's (e.g. ITER IO, DONES, Big Science Marketplace)

30% - Ensure the **right level of technical requirements** (NS, QA) in procurement documents in line with the scope of the contract

61% - Simplify and improve deliverable process with the aim to increase speed

52% - Make the **administrative burden** during contract execution proportionate to the complexity or value of the contract

39% - Organize regular **SME days** to **promote SME contracts**, **foster communication** and **share lessons learned**, **best practices** on contractual performance between SMEs and organizations involved in fusion projects

37% - Set a **guaranteed level of activity for SMEs** in the scope of framework contracts

In summary



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* Information Days

* Clarity of Invitation to Tender & technical documentation (Annex B)

* IT Tools – electronic contract signature, invoice e-submission, Documentation Exchange Tool (CTS)

- * Relationship during contract execution
- * Payment execution

- * Effort spent to prepare tender administrative documents
- * Administrative burden during contract execution quality documentation
- * Underestimation of contractual documentation effort by tenderer
- * Deliverable approval during contract execution
- * Contractual documentation effort

Conclusions









Action cluster 2 - Make administrative burden during tendering proportionate to complexity or value of resulting contract



Action cluster 3: Organize a regular SME day to promote SME contracts, foster communication and share lessons learned, best practices on procurement between SMEs and organizations involved in fusion projects



Action cluster 4: Develop simplification of deliverable approval process

Overview of the SME Day





First SME Day:

- good participation, i.e. ~50+ SME representatives in person in BCN and ~80+ SME representatives remotely
- Positive feedback received from many participants

Objectives reached:



- SME shared experiences and lessons learned
- F4E transferred knowledge to SMEs
- F4E shared information on upcoming business opportunities
- F4E gave networking opportunities during coffee breaks and lunch
- Fruitful discussions during Participatory Leadership Workshop and valuable insights on possible actions harvested

General F4E Measures in place



✓ **Pre-financing** payment at **20-30%** of contract price (with guarantee >300k EUR)

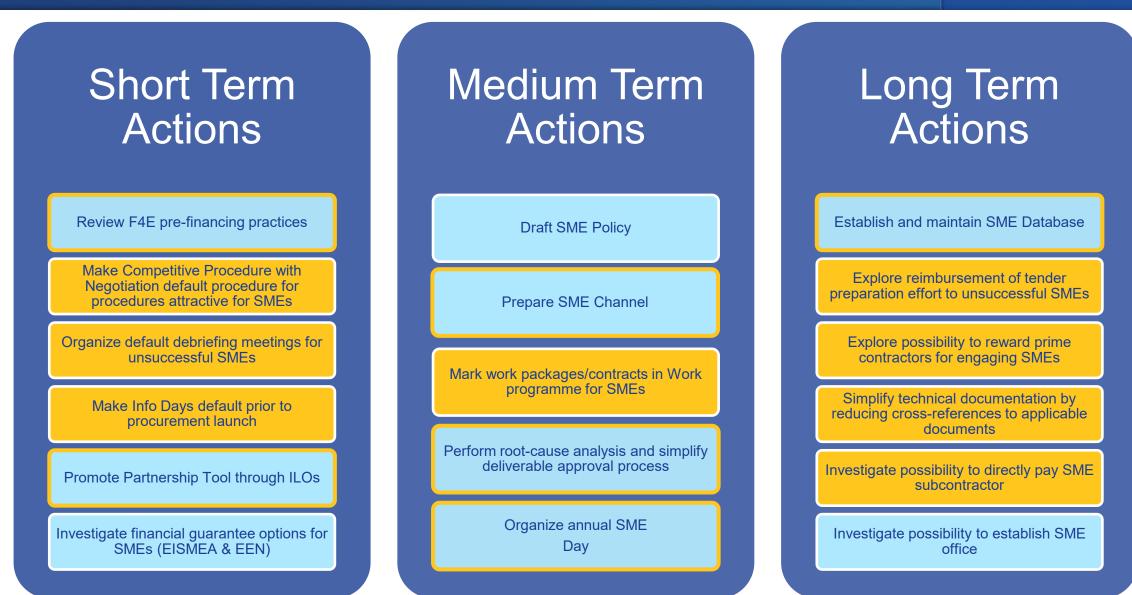
- ✓ Cash simulation before launch & <u>negotiable payment plan</u>
- ✓ **Relaxed financial thresholds** implemented (since July 2021)

2021	Noteworthy Values		Viability Standards			
Contract Value	Turnover	Cash Flow	Liquidity	Solvency	Gross Profit	
< 10 M€	YES	NO	NO	NO	NO	
10 M€ ≤ x < 20 M€ Service	YES	YES	NO	NO	NO	
10 M€ ≤ x < 20 M€ Supply/Work	YES	YES	NO	NO	NO	
≥ 20 M€	YES	YES	Ad hoc	Ad hoc	Ad hoc	

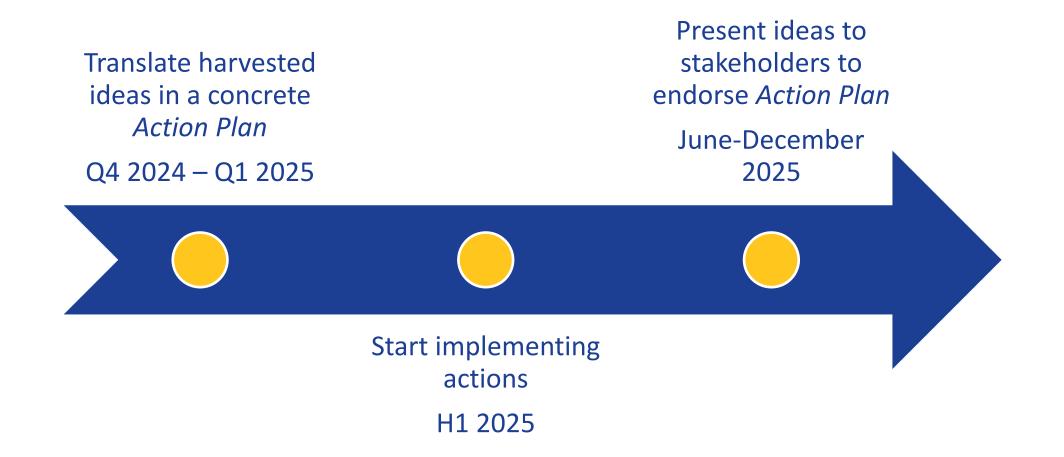
- Suspension of clearing of pre-financing (with x months, until final payment) COVID measure
- Adaptation of contractual payment schedule through introduction of additional and/or intermediate milestones/interim payments

Harvested Ideas during SME Day











Thank you for your attention

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