

TRL Scale & Levels In EU Projects



RESEARCH



DEVELOPMENT



DEPLOYMENT



- 9 Actual System Proven in Operational Environment
- 8 System Complete and Qualified
- 7 System Prototype Demonstration in Operational Environment
- 6 Technology Demonstrated in Relevant Environment
- 5 Technology Validated in Relevant Environment
- 4 Technology Validated in Lab
- 3 Experimental Proof of Concept
- 2 Technology Concept Formulated
- 1 Basic Principles Observed

G Technology Readiness Levels Trl European Commission

TD Snyder



G Technology Readiness Levels Trl European Commission:

Product and Process Design Jan Harmsen, André B. de Haan, Pieter L. J. Swinkels, 2024-05-20 Product and process design driving sustainable innovation is the 2nd edition of a comprehensive textbook for product and process design courses at BSc MSc EngD and PhD level It covers both heuristics based design methods as well as systems engineering approaches It contains specific methods to co design products and processes so that both designs are better than when these designs are made separately This integrated combination makes the book unique For making designs that contribute to the Sustainable Development Goals of the United Nations specific methods are provided for the People Planet and Prosperity dimensions This second edition of the book includes examples and exercises for each design method which makes it very suitable for teaching purposes The book is furthermore of interest to industrial process and product developers for many industry branches as it provides methods for design modelling and experimental validation for each innovation stage It is also very useful for R D managers as it provides guidelines for essential activities in each innovation stage discovery concept feasibility development detailed engineering leading to successful implementations of new processes and new products **Bridge Safety, Maintenance, Management, Life-Cycle, Resilience and Sustainability** Joan Ramon Casas, Dan M. Frangopol, Jose Turmo, 2022-06-27 Bridge Safety Maintenance Management Life Cycle Resilience and Sustainability contains lectures and papers presented at the Eleventh International Conference on Bridge Maintenance Safety and Management IABMAS 2022 Barcelona Spain 11 15 July 2022 This e book contains the full papers of 322 contributions presented at IABMAS 2022 including the T Y Lin Lecture 4 Keynote Lectures and 317 technical papers from 36 countries all around the world The contributions deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of safety maintenance management life cycle resilience sustainability and technological innovations of bridges Major topics include advanced bridge design construction and maintenance approaches safety reliability and risk evaluation life cycle management life cycle resilience sustainability standardization analytical models bridge management systems service life prediction structural health monitoring non destructive testing and field testing robustness and redundancy durability enhancement repair and rehabilitation fatigue and corrosion extreme loads needs of bridge owners whole life costing and investment for the future financial planning and application of information and computer technology big data analysis and artificial intelligence for bridges among others This volume provides both an up to date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on bridge safety maintenance management life cycle resilience and sustainability of bridges for the purpose of enhancing the welfare of society The volume serves as a valuable reference to all concerned with and or involved in bridge structure and infrastructure systems including students researchers and practitioners from all areas of bridge engineering Challenges and Innovations in Ocean In Situ Sensors Eric Delory, Jay Pearlman, 2018-09-21 Challenges and Innovations in Ocean In Situ Sensors Measuring Inner Ocean

Processes and Health in the Digital Age highlights collaborations of industry and academia in identifying the key challenges and solutions related to ocean observations A new generation of sensors is presented that addresses the need for higher reliability e g against biofouling better integration on platforms in terms of size and communication and data flow across domains in situ space etc Several developments are showcased using a broad diversity of measuring techniques and technologies Chapters address different sensors and approaches for measurements including applications quality monitoring and initiatives that will guide the need for monitoring Integrates information across key marine and maritime sectors and supports regional policy requirements on monitoring programs Offers tactics for enabling early detection and more effective monitoring of the marine environment and implementation of appropriate management actions Presents new technologies driving the next generation of sensors allowing readers to understand new capabilities for monitoring and opportunities for another generation of sensors Includes a global vision for ocean monitoring that fosters a new perspective on the direction of ocean measurements

Privacy and Identity Management. Time for a Revolution? David Aspinall,Jan Camenisch,Marit Hansen,Simone Fischer-Hübner,Charles Raab,2016-07-20 This book contains a range of keynote papers and submitted papers presented at the 10th IFIP WG 9 2 9 5 9 6 11 7 11 4 11 6 SIG 9 2 2 International Summer School held in Edinburgh UK in August 2015 The 14 revised full papers included in this volume were carefully selected from a total of 43 submissions and were subject to a two step review process In addition the volume contains 4 invited keynote papers The papers cover a wide range of topics cloud computing privacy enhancing technologies accountability measuring privacy and understanding risks the future of privacy and data protection regulation the US privacy perspective privacy and security the PRISMS Decision System engineering privacy cryptography surveillance identity management the European General Data Protection Regulation framework communicating privacy issues to the general population smart technologies technology users privacy preferences sensitive applications collaboration between humans and machines and privacy and ethics **Privacy**

Technologies and Policy Bettina Berendt,Thomas Engel,Demosthenes Ikonomou,Daniel Le Métayer,Stefan Schiffner,2016-03-09 This book constitutes the thoroughly refereed post conference proceedings of the Third Annual Privacy Forum APF 2015 held in Luxembourg Luxembourg in October 2015 The 11 revised full papers presented in this volume were carefully reviewed and selected from 24 submissions The topics focus on privacy by design PbD i e the attempt to combine technical and organizational measures to ensure the basic rights of the individual The papers are organized in three sessions measuring privacy rules and principles legal and economic perspectives on privacy *Mastering Technology Transfer: From Invention to Innovation* George Vekinis,2023-11-25 Every innovation starts its life as an idea It is the systematic transformation of this idea via its manifestation as an invention to the final innovative material device process method service etc that is the subject of this practical step by step guide It will be very useful to anyone who has a technological idea and wishes to commercialize it The author describes a systematic transformational process in ten distinct stages from the birth of

the idea through its technical validation and its economic viability validation to the final market innovation The author correlates this process with the Technology Readiness Levels which form the backbone of nearly all major R D programs In addition the reader is introduced to the three critical milestones where crucial go no go decisions are made A number of case studies have been added in this new edition and analyzed in some detail This guide is based on many years of experience of the author in technology transfer activities both as a mentor and a senior consultant of the European Commission The book includes a plethora of clear definitions and clarifications as well as valuable strategic advice and insights into many key aspects of the transformational process that will be useful to any inventor wishing to take their invention to its logical conclusion that of a valuable product or service

AI Watch, Assessing Technology Readiness Levels for Artificial Intelligence, 2020 Artificial Intelligence AI offers the potential to transform our lives in radical ways However not only do we lack the tools to determine what achievements will be attained in the near future but we even underestimate what various technologies in AI are capable of today Certainly the translation from scientific papers and benchmark performance to products is faster in AI than in other non digital sectors However it is often the case that research breakthroughs do not directly translate to a technology that is ready to use in real world environments This document describes an example based methodology to categorise and assess several AI technologies by mapping them onto Technology Readiness Levels TRL e g maturity and availability levels We first interpret the nine TRLs in the context of AI and identify different categories in AI to which they can be assigned We then introduce new bidimensional plots called readiness vs generality charts where we see that higher TRLs are achievable for low generality technologies focusing on narrow or specific abilities while low TRLs are still out of reach for more general capabilities We include numerous examples of AI technologies in a variety of fields and show their readiness vs generality charts serving as a base for a broader discussion of AI technologies Finally we use the dynamics of several AI technology at different generality levels and moments of time to forecast some short term and mid term trends for AI

AI Watch, Revisiting Technology Readiness Levels for Relevant Artificial Intelligence Technologies, 2022 Artificial intelligence AI offers the potential to transform our lives in radical ways However we lack the tools to determine which achievements will be attained in the near future Also we usually underestimate which various technologies in AI are capable of today Certainly the translation from scientific papers and benchmark performance to products is faster in AI than in other non digital sectors However it is often the case that research breakthroughs do not directly translate to a technology that is ready to use in real world environments This report constitutes the second edition of a study proposing an example based methodology to categorise and assess several AI technologies by mapping them onto Technology Readiness Levels TRL e g maturity and availability levels We first interpret the nine TRLs in the context of AI and identify different categories in AI to which they can be assigned We then introduce new bidimensional plots called readiness vs generality charts where we see that higher TRLs are achievable for low generality technologies focusing on narrow or specific abilities

while high TRLs are still out of reach for more general capabilities In an incremental way this edition builds on the first report on the topic by updating the assessment of the original set of AI technologies and complementing it with an analysis of new AI technologies We include numerous examples of AI technologies in a variety of fields and show their readiness vs generality charts serving as a base for a broader discussion of AI technologies Finally we use the dynamics of several AI technologies at different generality levels and moments of time to forecast some short term and mid term trends for AI

First Workshop on Identification of Future Emerging Technologies for Low Carbon Energy Supply, 2017 The Joint Research Centre is developing an inventory of future emerging technologies relevant to energy supply as part of the Commission's internal Low Carbon Energy Observatory project a key element is consultation with external experts addressing both those with in depth experience in specific fields and those with a broad perspective on relevant science and engineering aspects The LCEO Workshop held 1 December 2016 was the first step in this process bringing together a group of 20 experts from European and international universities and research organisations as well as several JRC experts The programme targeted photovoltaics thermo electric concepts fuel cells and biofuels The participants organized in two working groups Fuels and Photovoltaics identified a set of FETs and discussed about different aspects of these technologies potential challenges applications and assessed their technology readiness level TRL This document summarises the outcome of the discussions in order to facilitate its use by the European Commission policy makers and the scientific community in general

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Technology Management Josef Gochermann, 2022-10-11 In this essential Josef Gochermann provides a compendium of the essential elements of technology management and answers ten important questions on how to identify new technologies properly evaluate relevant technologies recognize opportunities and risks in time and position yourself for technological success He shows how to use technologies beneficially make relevant technologies available at the right time recognize the end of a technology's performance in time and plan the use of technologies strategically and for the future **Wind Energy**

,2020 The aim of this report is to provide an update of the state of the art of wind energy technology and to identify how EC funded projects contributed to technology advancements Moreover this version of the LCEO Technology Development Report complements the last version JRC 2019a which explained main characteristics on wind energy with detailed development trends of the main technical indicators in onshore and offshore wind A main focus is on the progress and technology readiness level TRL of R D wind energy projects in the European context funded through the main European research funding instruments Particularly for offshore wind energy the progress within the SET Plan1 Implementation Working Group IWG for Offshore Wind is analysed against its research priorities As such this report sets a clear emphasis on the technology status research landscape and deployment and development trends in the European market and provides an outlook for wind energy under a scenario compatible with the SET Plan targets and striving for full decarbonisation of the European energy system until 2050

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Workshop on Identification of Future Emerging Technologies in the Ocean Energy Sector ,2018 As part of the European Commission s internal Low Carbon Energy Observatory LCEO project the Joint Research Centre JRC is developing an inventory of Future Emerging Technologies FET relevant to energy supply A key part of the LCEO initiative is the consultation of external experts addressing both those with in depth experience in specific fields and those with a broad perspective on relevant science and engineering aspects In this context on March 27 2018 the JRC organised a Workshop on Identification of Future Emerging Technologies for Ocean Energy on it premises in Ispra The workshop was organised on the idea of a colloquium between international experts to discuss about future emerging technologies considering different aspects such as their technology readiness level TRL the potential advantages and challenges affecting their development and evaluating the possible speed of development

Drawing Funding and Financing Scenarios for Effective Implementation of Smart Specialisation Strategies ,2018 Leveraging greater impact from the array of research and innovation funds in the EU is driving efforts to combine such funds and develop synergies at the policy and strategy levels However one of the first challenges for policy makers and stakeholders intervening in the support

to R I is to obtain a full picture of all current and planned funding and financing instruments This report uses the Technology Readiness Level TRL framework to characterise the different funding that is available The major bottlenecks in the innovation process that can arise through the lack of appropriate funding are discussed along with the background and the utility and criticisms of the TRL The use of TRL to characterise and map research and innovation in the EU provides a useful framework However there is a need to broaden the scope of TRL to include commercialisation of new products and services and scale up business capacities Furthermore it is limited by its technology focus while innovation can embrace many aspects beyond the purely technological This work has also highlighted many issues that can affect the optimal combination of funds There is a need for cross cutting knowledge of the different funds rather than there being silo thinking where a person only considers the area in which they directly work and not interrelated areas in other domains Hand in hand with this is a better understanding of how beneficiaries decided between funding options and the support they may require This support can include clearer information communicated with regards to the funds and also the financial instruments that are available such as those implemented by the European Investment bank Finally an improved alignment of the rules of participation of the various funds is needed both between the different funds at the EU level but also with national funding

TACTICS
Susanne Sondergaard,2015 In recent years the threat of terrorism in urban environments has become an important issue emphasised by several successfully carried out terrorist attacks New York Madrid London Copenhagen and Paris are just some examples When security forces are alerted to a specific terrorist threat their main goal is to prevent an actual attack On the other hand if prevention fails and the attack is carried out independent of the degree of success security forces become responsible for stopping it and mitigating its consequences The efficiency and effectiveness of the response relies on the ability to respond quickly decompose threats and efficiently and effectively manage existing capabilities *TACTICS* Tactical Approach to Counter Terrorists in Cities is an FP7 project commissioned by the European Commission in 2012 to develop a low technology readiness level TRL decision support technology to assist security forces in countering terrorist threats in urban environments The system that was developed as part of this project brings an innovative approach built around threat decomposition threat management and capability management The system can be defined as a counterterrorism decision support technology designed to facilitate a clearer understanding of both the threat and the capabilities available to counteract it enabling a faster more efficient and effective security force response This report assesses the policy implications of introducing a *TACTICS* like system in Europe Publisher s web site

High Level Task Force on Skills and Mobility European Commission. Directorate-General for Employment, Industrial Relations, and Social Affairs,European Commission. High Level Task Force on Skills and Mobility,2001

Assessment of Responsible Innovation Emad Yaghmaei,Ibo van de Poel,2020-11-11 Responsible Innovation encourages innovators to work together with stakeholders during the research and innovation process to better align the outcomes of innovation with the values needs and expectations

of society Assessing the benefits and costs of Responsible Innovation is crucial for furthering the responsible conduct of science technology and innovation However there is until now only limited academic work on Responsible Innovation assessment This book fills this lacuna Assessment of Responsible Innovation Methods and Practices presents tools for measuring monitoring and reporting upon the Responsible Innovation process and the social environmental scientific and economic impacts of innovations These tools help innovators to mitigate risk and to strengthen their strategic planning This book aligns assessment tools and practices with the UN Sustainable Development Goals SDGs The prospects as well as the limitations of various Responsible Innovation assessment approaches and tools are discussed as well as their applicability in various industry contexts The book brings together leading scholars in the field to present the most comprehensive review of Responsible Innovation tools It articulates the importance of assessment and value creation the different metrics and monitoring systems that can be deployed and the reporting mechanisms including the importance of effective communication This book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license at <https://www.taylorfrancis.com/books/e/9780429298998> [Technology Readiness Level a Complete Guide - 2019 Edition](#) Gerardus Blokdyk, 2018-12-21 Has the technology reached a minimum Technology Readiness Level TRL 4 or higher Project criteria Technology push or market pull Have design requirements been derived from system requirements Has system requirements specification document been completed will the consumer accept products that have been processed with this technology Defining designing creating and implementing a process to solve a challenge or meet an objective is the most valuable role In EVERY group company organization and department Unless you are talking a one time single use project there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make Technology readiness level investments work better This Technology readiness level All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth Technology readiness level Self Assessment Featuring 1017 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which Technology readiness level improvements can be made In using the questions you will be better able to diagnose Technology readiness level projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in Technology readiness level and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the Technology readiness level Scorecard you will develop

a clear picture of which Technology readiness level areas need attention Your purchase includes access details to the Technology readiness level self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next You will receive the following contents with New and Updated specific criteria The latest quick edition of the book in PDF The latest complete edition of the book in PDF which criteria correspond to the criteria in The Self Assessment Excel Dashboard Example pre filled Self Assessment Excel Dashboard to get familiar with results generation In depth and specific Technology readiness level Checklists Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books Lifetime Updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips

Technology Readiness Level A Complete Guide - 2020 Edition Gerardus Blokdyk,2019-09-29 Have design to cost DTC goals been identified What is the current Technology Readiness Level TRL for each program or project item or area What resources and tools would be helpful Has scientific feasibility of proposed technology been fully demonstrated To whom users customers industry is this invention dedicated Defining designing creating and implementing a process to solve a challenge or meet an objective is the most valuable role In EVERY group company organization and department Unless you are talking a one time single use project there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make Technology Readiness Level investments work better This Technology Readiness Level All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth Technology Readiness Level Self Assessment Featuring 974 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which Technology Readiness Level improvements can be made In using the questions you will be better able to diagnose Technology Readiness Level projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in Technology Readiness Level and process design strategies into practice according to best practice guidelines Using a Self Assessment tool known as the Technology Readiness Level Scorecard you will develop a clear picture of which Technology Readiness Level areas need attention Your purchase includes access details to the Technology Readiness Level self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next You will receive the following contents with New and

Updated specific criteria The latest quick edition of the book in PDF The latest complete edition of the book in PDF which criteria correspond to the criteria in The Self Assessment Excel Dashboard Example pre filled Self Assessment Excel Dashboard to get familiar with results generation In depth and specific Technology Readiness Level Checklists Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books Lifetime Updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips

Carbon Capture Utilisation and Storage ,2019 The objective of this report is to assess the maturity of the key technologies for carbon capture utilisation and storage CCUS to review the status of the technology with respect to the deployment targets and EU policy goals The technologies covered include power generation and industry Concerning the CO2 utilisation technologies the overview covers all applications related to the synthesis of fuels chemicals and materials Regarding CO2 storage the focus is both on offshore and onshore aquifers but also considering alternative ways such as basalts On transport it s currently evaluating the combination between shipping and pipelines therefore it has been considered both in this report More accurate monitoring techniques are necessary to guarantee the safety of CCS projects and these are detailed and new tendencies are also reviewed The review of each topic is organised following three main blocks i Literature review and technology analysis to depict the state of the art of CCS and CDU technologies ii Technology assessment based upon two main indicators technology readiness level TRL evolution according to European R and iii technology forecast provided by the JRC EU TIMES model to estimate the future impact of CCS and CDU in the European industry and energy sectors The main key performance indicators KPIs aim at quantifying the development of the technology and the JRC EU TIMES model forecasts aim at identifying the role of CCUS in the near and long term future scenarios

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **G Technology Readiness Levels Trl European Commission**

In some sort of inundated with screens and the cacophony of instant transmission, the profound energy and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the continuous assault of noise and distractions. However, situated within the musical pages of **G Technology Readiness Levels Trl European Commission**, a charming work of literary splendor that impulses with natural thoughts, lies an wonderful trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that enchanting opus courses readers on a mental odyssey, delicately exposing the latent potential and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is key subjects, dissect their interesting publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

<https://socketapi.adit.com/public/detail/Documents/sky%20and%20telescopes%20pocket%20sky%20atlas%20jumbo%20edition.pdf>

Table of Contents G Technology Readiness Levels Trl European Commission

1. Understanding the eBook G Technology Readiness Levels Trl European Commission
 - The Rise of Digital Reading G Technology Readiness Levels Trl European Commission
 - Advantages of eBooks Over Traditional Books
2. Identifying G Technology Readiness Levels Trl European Commission
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an G Technology Readiness Levels Trl European Commission
 - User-Friendly Interface

4. Exploring eBook Recommendations from G Technology Readiness Levels Trl European Commission
 - Personalized Recommendations
 - G Technology Readiness Levels Trl European Commission User Reviews and Ratings
 - G Technology Readiness Levels Trl European Commission and Bestseller Lists
5. Accessing G Technology Readiness Levels Trl European Commission Free and Paid eBooks
 - G Technology Readiness Levels Trl European Commission Public Domain eBooks
 - G Technology Readiness Levels Trl European Commission eBook Subscription Services
 - G Technology Readiness Levels Trl European Commission Budget-Friendly Options
6. Navigating G Technology Readiness Levels Trl European Commission eBook Formats
 - ePub, PDF, MOBI, and More
 - G Technology Readiness Levels Trl European Commission Compatibility with Devices
 - G Technology Readiness Levels Trl European Commission Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of G Technology Readiness Levels Trl European Commission
 - Highlighting and Note-Taking G Technology Readiness Levels Trl European Commission
 - Interactive Elements G Technology Readiness Levels Trl European Commission
8. Staying Engaged with G Technology Readiness Levels Trl European Commission
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers G Technology Readiness Levels Trl European Commission
9. Balancing eBooks and Physical Books G Technology Readiness Levels Trl European Commission
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection G Technology Readiness Levels Trl European Commission
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine G Technology Readiness Levels Trl European Commission
 - Setting Reading Goals G Technology Readiness Levels Trl European Commission
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of G Technology Readiness Levels Trl European Commission
 - Fact-Checking eBook Content of G Technology Readiness Levels Trl European Commission
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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