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#### Abstract

Ferdinand Magellan's first circumnavigation of the globe marked a pivotal moment in worldwide exploration, profoundly shaping navigation, geography, and trade. This study examines the motivations behind Magellan's voyage, focusing on the strategic and economic significance of the Moluccas, and explores how the expedition revolutionized European understanding of global geography. Utilizing primary sources, particularly Antonio Pigafetta's detailed accounts, the research highlights Magellan's journey's contributions to cartography, the establishment of new trade routes, and the cultural exchanges between Europeans and indigenous peoples. The findings underscore the expedition's role in enhancing global trade networks and expanding scientific knowledge, paving the way for future explorations and integrating a globalized world.

**Keywords:** Ferdinand Magellan, Circumnavigation, Global Navigation, Moluccas, Spice Trade, Antonio Pigafetta, Age of Exploration, Global Trade Networks, Cartography, Cultural Exchange.

## **INTRODUCTION**

Globalization encapsulates the interconnectedness of nations, facilitated by the widespread sharing of ideas, knowledge, goods, and services across borders. In the economic domain, it promotes free trade and capital flows between nations, cultivating partnerships and integrations among countries with aligned interests. Economic globalization leverages the efficiency of specialized production, enabling rapid access to cost-effective materials and expansive market distribution. Furthermore, telecommunications and the internet serve as crucial drivers of globalization, exponentially accelerating the exchange of information. Globalization, a phenomenon older than many believe, impacts almost all aspects of modern economic lives (n.d) (Sinta et al., 2023).

However, globalization's impacts extend beyond the economic sphere, permeating the cultural and social realms as well. As various cultures interact and intermingle, a global cultural consciousness emerges, marked by the adoption of shared practices, norms, and identities (Zafar et al., 2020). The spread of world tourism, global sports competitions, and the proliferation of multinational corporations reflect this process of cultural globalization (Yankuzo, 2014).

Ferdinand Magellan's circumnavigation of the globe in the early 16th century represented a pivotal moment in the Age of Discovery that has shaped modern globalization. His expedition, a testament to human curiosity and exploration, unveiled new scientific frontiers and confirmed the Earth's spherical nature, echoing the insights of ancient scholars such as Eratosthenes. Born in 1480 in Sabrosa, Portugal, Magellan received a comprehensive education in cartography, mathematics, astronomy, and navigation, and his extensive military career, spanning over two decades, involved traversing African and Eastern shores, where he distinguished himself through valor and strategic acumen. Despite sustaining injuries in Morocco and navigating political strife, Magellan's legacy endures as a trailblazer in global exploration and discovery.

Magellan's circumnavigation also marked a significant turning point in global navigation, trade, and cultural exchange. This historic voyage revolutionized the understanding of the world's geography and had far-reaching implications for trade routes and cultural interactions between diverse regions while reshaping cartographic

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representations and geographical perceptions in Europe. Antonio Pigafetta, an Italian nobleman who participated in Magellan's expedition, provides invaluable insights into the challenges and discoveries encountered during this momentous voyage through his detailed account.

The remainder of Magellan's party was the first to circumnavigate the world, quite inadvertently. One of the survivors of the voyage was Antonio Pigafetta, a young Italian nobleman and volunteer member of the crew. His diligent and detailed account of the expedition is the most comprehensive and valuable voyage narrative and one of the most critical geographical documents.

The dissemination of Magellan's accomplishments through Pigafetta's narrative contributed to the growing momentum of maritime exploration and the expansion of European influence worldwide.

At the heart of Magellan's voyage lay the Moluccas, a cluster of islands in present-day Indonesia, which emerged as a key destination and focal point of the expedition's objectives. The expedition was driven by a quest for new trade routes to the East Indies, particularly the Moluccas, renowned for their valuable spices, including cloves, nutmeg, and mace. Control over the spice trade routes was a coveted prize for European powers, as spices were highly sought after for their culinary and medicinal uses. Magellan's voyage aimed to establish a direct westward route to the Moluccas, bypassing traditional trade routes controlled by rival powers such as Portugal. John H. Parry, in his seminal work "The Discovery of the Sea," emphasizes the significance of the Moluccas in Magellan's expedition, stating that the Spice Islands "were the principal objective of the expedition and the source of the wealth that motivated it" (1981). Indeed, the Moluccas emerged as a strategic destination and central point of the expedition's objectives, underscoring their importance in shaping the course of global trade and exploration. As Laurence Bergreen writes in his book "Over the Edge of the World: Magellan's Terrifying Circumnavigation of the Globe," Magellan's expedition "revolutionized the understanding of the world's geography and introduced a new era of exploration" (2004). Magellan's circumnavigation challenged prevailing notions of the Earth's geography, demonstrating the possibility of navigating around the globe and, as previously mentioned, confirming the Earth's sphericity. This realization expanded European understanding of global geography and paved the way for future voyages of exploration and discovery. (Bergreen, 2003)

Despite Magellan's untimely demise during a skirmish with rival tribes in the Philippines, the circumnavigation he initiated continued under the command of Juan Sebastián Elcano from Spain. Magellan's pioneering voyage influenced the cultural landscapes of the regions he traversed throughout the journey.

The interactions between Magellan's crew and the indigenous populations they encountered along the way contributed to exchanging ideas, goods, and technologies, enriching the cultural heritage of both the explorers and the local communities (Quimby, 2011). These cultural exchanges laid the foundation for future interactions and collaborations between civilizations, fostering mutual understanding and cooperation (Quimby, 2011).

In addition to impacting global navigation and trade, Magellan's circumnavigation also had implications for scientific knowledge and technological advancements. The voyage provided valuable insights into oceanography, astronomy, and cartography, which expanded scientific understanding during the Renaissance period (Sánchez, 2021). The data collected during the expedition helped refine maps and navigational instruments, improving the accuracy of future maritime journeys (Sánchez, 2021).

Furthermore, Magellan's circumnavigation expedition had a lasting legacy on the political and social landscapes of the regions involved. The successful completion of the voyage bolstered the prestige and power of the Spanish Empire, establishing Spain as a dominant force in global exploration and colonization (Phelan, 1955). Magellan and his crew's circumnavigation of the globe symbolized the reach and influence of European powers during the Age of Discovery, shaping the course of history for centuries to come (Phelan, 1955).

In this article, we delve into the historical significance of Magellan's voyage, exploring its impact on civilization and the crucial role of the Moluccas in the expedition's objectives. Through a detailed examination of primary sources, particularly Antonio Pigafetta's Accounts scholarly works and historical accounts, we aim to illuminate the enduring legacy of Magellan's circumnavigation and its profound influence on the trajectory of global history. Based on the explanation above, the research questions are as follows: How did Ferdinand Magellan's first circumnavigation revolutionize global navigation and exploration?

What were the motivations behind Magellan's expedition, and why were the Moluccas chosen as its main destination?

How did the exploration of the Moluccas during Magellan's circumnavigation contribute to the broader understanding of global geography and trade routes?

## Methods

This article employs a historical analysis approach, drawing upon primary sources such as historical documents, journals, and accounts from the period of Magellan's circumnavigation. Additionally, secondary sources, including scholarly articles, books, and analyses of Magellan's voyage, provide valuable insights into the expedition's impact and significance. Special attention is given to the accounts of Antonio Pigafetta, whose firsthand observations and detailed descriptions offer a unique perspective on the expedition and its encounters with the Moluccas. The theories and concepts to be used include Exploration and Expansion, which examines the motivations behind Magellan's expedition, including the quest for new trade routes, wealth, and prestige, as well as the broader context of European expansion during the Age of Exploration, Global Trade Networks concept which explores the significance of the Moluccas as a hub of trade and commerce during the 16th century, highlighting their importance in the exchange of goods, cultures, and ideas between East and West and Cultural Exchange and Interaction theory which explores how encounters between European explorers and indigenous peoples, such as those in the Moluccas, led to cultural exchange, syncretism, and the diffusion of knowledge and technologies.

## **RESULTS AND DISCUSSIONS**

Antonio Pigafetta, one of the few survivors of Ferdinand Magellan's expedition and its chronicler, provides valuable insights into the motivations and experiences of the voyage. Pigafetta's detailed account, "Il Viaggio Attorno al Mondo di Antonio Pigafetta, Nobile Vicentino" "("The Voyage Around the World by Antonio Pigafetta, Nobleman of Vicenza") by Angelo Paratico(2017) where the author transcribed Pigafetta's integral original accounts, serves as a primary source for understanding the expedition's impact on global navigation, exploration, and trade. Based on information provided by Pigafetta and some other scholars analysis was conducted in an attempt to answer to research questions:

# Ferdinand Magellan's First Circumnavigation Revolutionize Global Navigation and Exploration

Magellan's circumnavigation profoundly impacted global navigation and exploration, as it helped fill gaps in European knowledge about the world's geography. Before this voyage, European understanding of the Earth's vastness and the connections between oceans was speculative and often inaccurate. Magellan's successful journey provided concrete evidence of the Earth's spherical nature, a hypothesis that scholars had theorized but not empirically verified through continuous maritime travel. This expedition corrected numerous misconceptions European cartographers and explorers held, offering empirical data to inform future explorations.

In this context, Pigafetta's first-hand accounts of the expedition provided invaluable information that advanced knowledge about navigation and geography. For instance, his meticulous descriptions of the Strait of Magellan, the vast Pacific Ocean, and the diverse lands and peoples encountered reshaped the contemporary understanding of the world's geography. Moreover, his widely disseminated narratives influenced the cartographic representations of the world, challenging the Eurocentric perspectives that had previously dominated European maps. By carefully documenting their voyage, Pigafetta and other expedition members contributed to a more comprehensive and accurate global map, paving the way for future voyages of discovery and expansion. Undeniably, Pigafetta's account of the Strait of Magellan is particularly notable:

Approssimandosi alli 52 gradi, che fu il giorno delle XI mila virgini, trovarono uno stretto di CX leghe di lunghezza, che fanno 330 miglia, e perciò che riputarono questo come ad un gran miracolo, chiamarono il capo delle Undicimila Vergini, largo in alcune

parti più e manco di mezza lega. Il quale stretto, circondato da montagne altissime cariche di nevi, scorre in un altro mar, che fu chiamato il mar Pacifico, ed è molto profondo in alcune parti, che è da XXV in trenta braccia.

(Approaching 52 degrees, which was on the day of the 11,000 Virgins, they found a strait 110 leagues long, which is 330 miles. Considering this a great miracle, they named the cape the Cape of the Eleven Thousand Virgins, with a width of more or less half a league in some parts. This strait, surrounded by very high mountains covered in snow, leads into another sea, which they called the Pacific Ocean. In some parts, it is very deep, ranging from 25 to 30 fathoms).

The discovery of the strait, later known as the Strait of Magellan, was pivotal. It provided a new maritime route connecting the Atlantic and Pacific Oceans. This shortcut was essential for reducing the time and danger of navigating around the southern tip of South America (Cape Horn). This new route allowed for more efficient trade and exploration routes between Europe and Asia, bypassing the longer and treacherous path around Africa's Cape of Good Hope.

In addition, studies like research on the depth distribution of marine Ostracoda in the southern Strait of Magellan conducted by Whatley et al. (1997) provide scientific insights into the unique marine ecosystems encountered during Pigafetta's journey, enriching the understanding of the region's biodiversity.

Such unusual depth distribution of psychrospheric species may have resulted from the freezing temperature and low salinity of the water in the southern Strait of Magellan, coupled with the upwelling of cold, deep water masses.

His accounts reported the journey and served as invaluable resources for subsequent navigators, rendering the unknown world more accessible and understandable.

Pigafetta and the expedition members truthfully documented accounts, substantially enhancing the accuracy of maps and nautical charts. In fact, prior to Magellan's circumnavigation, depictions of the Pacific Ocean and surrounding regions were largely conjectural. His detailed records enabled cartographers to revise maps with precise coastlines, distances, and relative locations of newly discovered landmasses. His notes on traversing the vast Pacific conveyed its immense scale, which Europeans had previously underestimated. It provided essential information to update maps, including vivid ocean expansiveness descriptions. This newfound geographic knowledge gradually challenged the long-dominant Ptolemaic model in European cartography.

Mercore a 28 de novembre 1520 ne disbucassemo da questo stretto s'ingolfandone mar Pacifico. Stessemo tre mesi e venti giorni senza pigliare refrigerio di sorta alcuna. Mangiavamo biscotto, non più biscotto, ma polvere de quello con vermi a pugnate, perchè essi avevano mangiato il buono: puzzava grandemente de orina de sorci, e bevevamo acqua gialla già putrefatta per molti giorni, e mangiavamo certe pelle de bove, che erano sopra l'antenna maggiore, acciò che l'antenna non rompesse la sartia, durissime per il sole, pioggia e vento.

(On Wednesday, November 28, 1520, we emerged from this strait and entered the Pacific Ocean. We stayed for three months and twenty days without any kind of refreshment. We ate biscuit, not really biscuit anymore, but dust of it with handfuls of worms, because they had eaten the good part: it smelled strongly of rat urine. We drank yellow water that had already gone bad for many days, and we ate some ox hides that were on the main yardarm, to prevent the yardarm from breaking the rigging, which had become very hard due to the sun, rain, and wind).

This excerpt richly conveys Pigafetta's observations on the vastness and challenges of their journey through the Pacific Ocean. He provided invaluable information that allowed cartographers to update and refine their maps, correcting numerous inaccuracies about the Pacific region and its surrounding landmasses. This pioneering accomplishment demonstrated that it was possible to travel around the world, inspiring subsequent exploratory endeavors. Driven by the promise of discovering new trade routes and opportunities for territorial expansion, European nations were motivated to undertake their own voyages of discovery. The success of Magellan's expedition proved that the inherent risks of prolonged voyages could be mitigated through meticulous planning and the accumulation of navigational expertise. Pigafetta's meticulously recorded accounts provided invaluable

guidance for future explorers, encouraging figures like Sir Francis Drake to embark on similar expeditions that further expanded global geographical knowledge.

E alli 7 di setembre, con l'aiuto d'Iddio, entrarono nel porto di San Lucar, vicino a Siviglia, solamente 18 uomini, la maggior parte ammalati; il resto di 59 che partirono dalle Molucche, parte morirono di diverse malattie, e alcuni ancora furono decapitati nell'isola di Timor per lor delitti. E giunti in questo porto di S8 Lucar, per il conto tenuto di giorno in giorno, aveano navigato da 14460 leghe, circundando il mondo dal levante in ponente. Alli 8 di settembre vennero in Siviglia e scaricarono tutta l'artigliaria per allegrezza, e tutti in camicia e scalzi, con un torchio in mano, andarono a ringraziare alla chiesa maggiore il Signor Iddio, che gli avesse condotti salvi fino a quel punto.

(And on the 7th of September, with the help of God, they entered the port of San Lucar, near Seville, with only 18 men, most of them sick; of the 59 who left the Moluccas, some died from various diseases, and some were beheaded on the island of Timor for their crimes. Having arrived in the port of San Lucar, according to their daily records, they had sailed 14,460 leagues, circling the world from east to west. On the 8th of September, they arrived in Seville and fired all their artillery in celebration. All of them, barefoot and wearing shirts, carrying a candle in their hands, went to the main church to thank the Lord God for having brought them safely to that point.

This quote highlights the monumental achievement of circumnavigating the globe, emphasizing both the duration of the journey and the fact that it was completed safely. Pigafetta's recognition of their accomplishment served as an inspiration and proof of concept for future explorations, showing that with faith and perseverance, such feats were possible. As a matter of fact, the legacy of Magellan's expedition continues to influence exploration endeavors. Future missions, whether in space exploration or terrestrial expeditions, draw inspiration from the spirit of discovery and the lessons learned from historical voyages. The operational insights gained from past explorations, such as those related to life-detection techniques in planetary analog missions or cognitive neuroscience data collection during expeditions, are being applied to enhance the success of future missions (Amador et al).

As we look ahead to future explorations, the encouragement derived from the achievements of Magellan's expedition serves as a beacon for pushing the boundaries of human knowledge and understanding. The spirit of exploration, fueled by the successes and lessons of the past, continues to drive endeavors in various fields, from deep-sea biology to space missions, ensuring that the legacy of exploration and discovery endures.

# Motivations Behind Magellan's Expedition and The Choice of The Moluccas as Its Destination

The primary driving force behind Ferdinand Magellan's expedition was economic gain, specifically the pursuit of a direct route to the spice-rich Moluccas (present-day Maluku Islands) in Indonesia. Spices such as cloves, nutmeg, and mace were immensely valuable in Europe for their culinary, preservative, and medicinal properties.

To illustrate the economic motivations behind Magellan's expedition and the specific choice of the Moluccas as its destination, Antonio Pigafetta provides key insights into the immense value placed on the spice trade.

L'isole ove nascono li garofani sono cinque: Tarenate, Tidore, Mutir, Macchian, Bacchian. Tarenate è la principale, e quando un re vecchio vivea, era quasi signor di tutte. Tidore, dove allora erano li nostri, ha il suo re. Mutir e Macchian non hanno re, ma si governano a popolo. Quando il re di Tidore e quelli di Tarenate hanno guerra insieme, queste due sopradette gli servono di gente di guerra. L'ultima, che è Bacchian, ha re. Tutta questa provincia over regione, ove nascono garofani, si chiama le Molucche.

(The islands where cloves grow are five: Ternate, Tidore, Mutir, Makian, and Bacan. Ternate is the main one, and when an old king was alive, he was almost the ruler of all of them. Tidore, where our people were at that time, has its own king. Mutir and Makian do not have kings, but are governed by the people. When the king of Tidore and the king of Ternate go to war, these two (Mutir and Makian) provide them with warriors. The last one, which is Bacan, has a king. This entire region, where cloves grow, is called the Moluccas).

His report emphasizes the immense value and abundance of these spices, which were highly sought after in Europe for their use in cooking, medicine, and preservation.

His account emphasizes the significance of the Spice Islands in the Age of Exploration, eventually leading to the establishment of colonial empires in Asia. Pigafetta's observations provide a glimpse into the early interactions between European explorers and the indigenous peoples of Southeast Asia, marking a pivotal moment in global history.

The quest for these valuable spices was central to the economic objectives of Magellan's journey, as highlighted by Pigafetta's records emphasizing the significance of the Moluccas as the source of these sought-after spices (Billing & Sherman, 1998). The spice trade was so crucial to national economies that rulers repeatedly mounted costly expeditions to raid spice-growing countries, and struggles to control them precipitated several wars (Govindarajan, 1985).

The Moluccas were strategically chosen as the leading destination because establishing a Spanish presence in the Moluccas would provide direct access to spices and challenge Portuguese dominance in the region. Spain sought to disrupt Portuguese control over the spice trade routes and shift the balance of power in favor of Spain. The Treaty of Tordesillas (1494) had divided the non-European world between Portugal and Spain. However, the exact location of the Moluccas relative to this division was unclear, creating a point of contention between the two powers.

Pigafetta's accounts show the intense desire to control the valuable spice trade and the broader ambitions of the Spanish Crown to establish a foothold in the Moluccas, challenging Portuguese supremacy in the region.

Political and personal ambitions also played significant roles in Magellan's voyage. For King Charles I of Spain (later Emperor Charles V), supporting Magellan's expedition was a strategic move to bolster Spain's prestige and geopolitical influence. By backing this daring voyage, Charles aimed to assert Spain's dominance in global exploration and trade, particularly in the lucrative spice trade, which Portugal then dominated.

Personal ambitions of fame and fortune drove Magellan himself. He sought to prove his navigational theories and find a westward route to the Spice Islands, which would bring him wealth and vindicate his reputation after falling out of favor with the Portuguese court. (Fitzpatrick & Callaghan, 2008). Having fallen out of favor with the Portuguese court, Magellan saw the Spanish-backed voyage as a crucial opportunity to restore his honor and secure a distinguished place in history. His intention to make a "notable and eternal mark" underscores his drive to achieve something extraordinary and unforgettable.

Magellan's tarnished reputation in Portugal, primarily due to conflicts with the Portuguese king and court, left him seeking a new patron. By turning to Spain and gaining the support of King Charles I, Magellan found the means to pursue his grand vision. This voyage offered him the chance to prove his capabilities as a navigator and leader and leave a legacy that would outshine his previous setbacks. In brief, for Magellan, the journey was not just a quest for new trade routes or territorial expansion; it was a path to personal redemption and historical immortality. His determination to succeed, driven by a need to vindicate himself and achieve lasting fame, played a crucial role in the eventual success of the expedition and its enduring legacy in the annals of exploration.

The voyage's success would serve as a testament to King Charles V's vision and Magellan's audacity, securing their legacies in history. This amalgamation of ambition and exploration encapsulates the adventurous spirit and unrelenting quest for knowledge and power that defined the Age of Discovery.

# The Exploration of the Moluccas During Magellan's Circumnavigation Contributed to the Broader Understanding of Global Geography, Cultural Aspects and Trade Routes.

Magellan's exploration of the Moluccas significantly enhanced European knowledge of Southeast Asia and the broader Pacific region. Pigafetta's narrative offers detailed descriptions of the Moluccas, their geographical features, cultural aspects and the routes taken to reach them.

Come giunsero a Tidore, una dell'isole Molucche, e della grata accoglienza che fece il re di Tidore alla armata. Del presente che fecero i nostri al re, al suo figliuolo e suoi principali. Alli otto di novembre 1521, tre ore avanti che 'l sol levasse, entrarono nel porto

di una isola chiamata Tidore, e al levar del sole, appressandosi a terra venti braccia, discaricarono tutte le bombarde. Fatto il giorno, il re venne in un prao alla nave e dette una volta all'intorno; subito li nostri in battelli l'andarono a rincontrare per onorarlo. Il re fece montar li nostri nel suo prao e sedere appresso di sé, ed egli sedea sotto una cortina di seta, che gli stava di sopra e d'intorno. Davanti di lui stava in piedi un de' suoi figliuoli con una bacchetta regale in mano, e duoi altri uomini di conto tenevano duoi vasi dorati per dargli l'acqua alle mani, e duoi altri erano con due cassette dorate piene di bettre.

(When they arrived at Tidore, one of the Moluccan islands, they received a warm welcome from the king of Tidore. Our men presented gifts to the king, his son, and his chief advisors. On November 8, 1521, three hours before sunrise, they entered the harbor of an island called Tidore. At sunrise, they approached the shore, twenty fathoms away, and fired all their cannons. When day broke, the king came to the ship in a prao and circled around it. Our men immediately went to meet him in boats to honor him. The king invited our men into his prao and had them sit beside him. He sat under a silk curtain that covered and surrounded him. In front of him stood one of his sons holding a royal staff, and two other noblemen held two golden vessels for him to wash his hands, while two others carried two golden boxes filled with betel).

The expedition's historic arrival at its final destination, the Moluccas, is worthy of note. As far as the global geography and trade routes are concerned, the respectful reception by the king on the island of Tidore underscores the Moluccas' significance as a crucial hub in the spice trade. This encounter provided Europeans with valuable insights into local customs, political structures, and the region's importance in global commerce. The detailed interactions and exchange of gifts demonstrated the potential for establishing beneficial trade relationships, which were essential for expanding European influence and developing new trade routes.

The detailed geographical descriptions also helped improve the accuracy of maps and nautical charts of the time. By recording the distances between islands and the characteristics of natural harbors, Pigafetta's account allowed cartographers to create more precise maps, facilitating safer and more efficient navigation for future voyages.

Here is a relevant quote from Antonio Pigafetta's account that reflects his detailed geographical descriptions:

Longi da questa ysola de Buru, circa trentacinque leghe, a la carta del mezo iorno verso garbin, Se truova Bandan B a n d a n et dudice ysole. in Sey de qste nasce la matia et nosce moscada, et li nomi loro sono questi: Zoroboa, mag10re de tucte le alére, Chelicel, Samianapi, Pulac, Pulurun et Rosoghin.

(Far from this island of Buru, about thirty-five leagues to the south-southwest, lies Banda, which is composed of twelve islands. In six of these grows the nutmeg tree and nutmeg. Their names are: Zoroboa, the largest of all, Chelicel, Samianapi, Pulac, Pulurun, and Rosoghin).

Pigafetta's detailed description of the location and the islands of Banda shows the growing European knowledge of global geography. The ability to document and share such information was crucial for future navigation and exploration.

The mention of nutmeg, a highly valuable spice, points to the economic motivations behind these explorations. The Banda Islands were a significant source of nutmeg, which was in great demand in Europe. This reflects how the desire for exotic goods fueled global exploration and the establishment of trade routes.

The documentation of the nutmeg tree and its location indicates an exchange of botanical knowledge. This kind of information was vital for European traders and colonizers who sought to control and monopolize valuable resources.

While the quote primarily reflects European perspectives, it also hints at the profound impact that these explorations and subsequent colonization had on local societies. The European presence and their economic interests often led to significant changes in the social, economic, and political structures of the regions they explored.

Overall, Pigafetta's account underscores how early globalization was driven by a combination of exploration, economic interests, and cultural exchanges. It illustrates the interconnectedness of different parts of the world and the ways in which European explorations contributed to a broader understanding of global geography and trade routes.

With regard to cultural exchange, Pigafetta's observations about the local inhabitants, including their religious practices and language, provided insights into the cultural and social dynamics of the region. This cultural intelligence was crucial for explorers who followed, enabling them to navigate interactions with local populations more effectively.Magellan's expedition also facilitated significant cultural exchanges between Europe and the indigenous peoples of the Moluccas. Pigafetta's detailed descriptions of the local customs, traditions, and social structures provide a rich account of these interactions. The Europeans introduced new goods, technologies, and ideas to the Moluccas, while simultaneously learning local navigation techniques, agricultural practices, and medicinal plants.(Gaspersz et al., 2018)

Questi Mori adorano Macometto e osservano la sua legge. Non mangiano carne di porco. Quando voglion farsi netti e lavarsi le parti di dietro, adoperano la man sinistra, benché alcuna volta adoperino ancora la destra: ma dipoi con quella non si toccheriano né li denti né la bocca per cosa alcuna; e volendo orinare si mettono in forma di sedere.

(These Moors worship Muhammad and follow his laws. They do not eat pork. When they want to clean themselves and wash their private parts, they use their left hand, although sometimes they also use their right hand. However, after that, they won't touch their teeth or mouth with that hand for anything. When they want to urinate, they do so in a squatting position).

Understanding the local customs and religious observances allowed Europeans to approach trade and negotiations with greater sensitivity and awareness, which was essential for integrating into the established trade networks of the Indian Ocean and beyond. This deeper comprehension of the Moluccas' cultural and religious context contributed to the broader European understanding of global geography and the interconnected nature of trade routes.

These observations provide valuable context about the spread of Islam in Southeast Asia. They demonstrate how Islamic beliefs and practices were adapted to fit local cultural contexts, resulting in a distinctive regional form of Islam. This integration of Islamic beliefs with local customs offers insights into the dynamics of religious and cultural exchange in the region.

Understanding these religious practices was crucial for European explorers and colonizers. It equipped them with the knowledge needed to navigate and engage with local populations more effectively. Such cultural intelligence was essential for forming alliances, negotiating trade agreements, and establishing a presence in the region.

His thorough recording of these cultural aspects was crucial for the broader goals of exploration and colonization. It helped European powers navigate the complex social landscapes of the new territories they encountered, making it easier to establish alliances, negotiate, and sometimes impose their influence. This cultural intelligence, derived from first-hand observations, became an indispensable tool for those who followed in Magellan's footsteps, enhancing their ability to navigate and thrive in diverse environments.

Antonio Pigafetta also includes a vocabulary list of the language spoken in the Moluccas, reflecting his keen interest in the diverse cultures and languages encountered during the journey.

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Al suo Ydio Allà	A l'ochio matta
Al christiano naceran	A le ciglie quilai
Al Turco riunno	A le palpebre cenin
Al Moro musulman Isilam	Al nazo idon
Al Gentille Caphre	A la boca mulut
Al sue meschite mischit	A li labri bebere
A li sui preti maulana catip mudin	A li denti gigi
A li homini sapienti horan pandita	A le gengive issi
A li homini sui devoti mossai	A la lingua lada
A le sue cerimonie zambahe han de alà	Al palato langhi
meschit	Al mento aghai
Al padre bapa	A la barba ianghut
A la madre mama ambui	A li mostaqui missai
Al figliolo anach	A la macella pipi
Al fratello sandala	A la orechie talingha
Al fratello de questo capatin muiadi	A la golla laher
Al germano sandala sopopu	Al colo tundun
A l'avo niny	A le spale balachan
Al socero minthua	Al peto dada
Al genero minanthu	Al core atti
Al homo horan	A la mamela sussu
A la femina poranpoan	Al stomacho parut
A li capili lambut	Al corpo tundunbutu
Al capo capala	Al membro botto
Al fronte dai	A la natura de le donne bucchii

#### Vocabuli de questi populi mori:

Antonio Pigafetta's list of words recorded during Magellan's circumnavigation provides a fascinating glimpse into early globalization. The list reflects the linguistic and cultural exchanges that occurred as Europeans encountered and documented diverse peoples and their languages.

The words represent various languages and cultures the explorers encountered. Terms for religious figures and practices, body parts, family members, and everyday objects illustrate the breadth of cultural exchange. Words like "*Ydio*," "*christiano*," "*Turco*," "*Moro*," and terms for religious figures and ceremonies show the importance of religion in these interactions, reflecting how early globalization was often intertwined with religious missions and conversions.

Words for body parts and family members indicate an effort to communicate basic human relationships and physical descriptions, essential for establishing rapport and understanding between different cultures. Terms related to daily life and social titles provide insights into the social structures and activities of the communities encountered.

The varied spellings and phonetic transcriptions highlight the challenges of recording foreign languages using European alphabets, illustrating early attempts at cross-cultural communication and documentation. The need to understand and document local languages was crucial for trade and navigation, as knowing terms for goods, directions, and interactions would have been vital for negotiating trade and navigating new regions.

### **Enhancement of Trade Networks**

The discovery of a westward route to the Moluccas had profound implications for global trade. It allowed Spain to access the spice trade directly, circumventing Portuguese-controlled territories. This new route opened up opportunities for more direct and efficient trade between Europe and Asia. Pigafetta's accounts emphasize the

strategic importance of the Moluccas in the global trade network, detailing the wealth of spices and other valuable commodities available in the region.

#### Contribution to Scientific Knowledge

The scientific implications of Magellan's voyage were significant. The expedition provided empirical evidence supporting the sphericity of the Earth, challenging the prevailing Ptolemaic model. The successful navigation around the globe confirmed the possibility of circumnavigation, thereby contributing to the advancement of geographical and astronomical knowledge. Pigafetta's observations also enhanced European understanding of the natural world, adding to the corpus of natural history knowledge with descriptions of flora, fauna, and climatic conditions encountered during the journey

In summary, Antonio Pigafetta's detailed observations and accounts from Magellan's expedition significantly advanced European navigation, cartography, and global trade. The voyage's success reshaped contemporary geographic knowledge, encouraged future explorations, and contributed to a broader understanding of the world during the Age of Exploration.

#### CONCLUSION

Ferdinand Magellan's first circumnavigation of the globe stands as a landmark achievement in the annals of exploration, revolutionizing global navigation and reshaping our understanding of the world's geography. This pioneering voyage demonstrated the feasibility of global circumnavigation, provided empirical evidence supporting the Earth's sphericity, and significantly advanced the accuracy of contemporary cartography. Antonio Pigafetta's detailed accounts played a crucial role in disseminating knowledge about the vast Pacific Ocean and the strategic Moluccas, which were pivotal in the burgeoning global spice trade.

The motivations behind Magellan's expedition were multifaceted, encompassing economic ambitions, strategic objectives, and personal and political aspirations. The quest to access the spice-rich Moluccas drove the expedition, promising immense wealth and a direct trade route that bypassed Portuguese-controlled territories. The strategic significance of the Moluccas, coupled with the geopolitical rivalry between Spain and Portugal, underscored the broader context of European expansion during the Age of Exploration.

Magellan's exploration of the Moluccas contributed profoundly to the broader understanding of global geography and trade routes. The documentation of new lands, navigational challenges, and cultural encounters enriched European knowledge and facilitated subsequent voyages. The expedition's success spurred further exploration, leading to increased competition among European powers for dominance in overseas territories and trade networks.

Moreover, the cultural exchanges between Europeans and indigenous peoples during Magellan's voyage exemplified the broader patterns of interaction and syncretism that characterized this era. The detailed observations of local customs, navigation techniques, and natural resources by Pigafetta and others provided valuable insights that enhanced European scientific knowledge and navigation capabilities.

In conclusion, Ferdinand Magellan's circumnavigation marked a transformative moment in global history, paving the way for future explorations and expanding the horizons of human understanding. The expedition's legacy is reflected in the enhanced accuracy of global maps, the stimulation of further maritime exploration, and the integration of global trade networks that continue to shape our world today. Magellan's voyage remains a testament to human curiosity, resilience, and the relentless pursuit of knowledge, leaving an indelible mark on the course of global history. This groundbreaking expedition not only demonstrated the feasibility of circum-global navigation but also profoundly influenced the trajectory of European expansion and the transformation of the world order in the centuries that followed.

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