# NEW YORK CITY DEPARTMENT OF PARKS AND RECREATION

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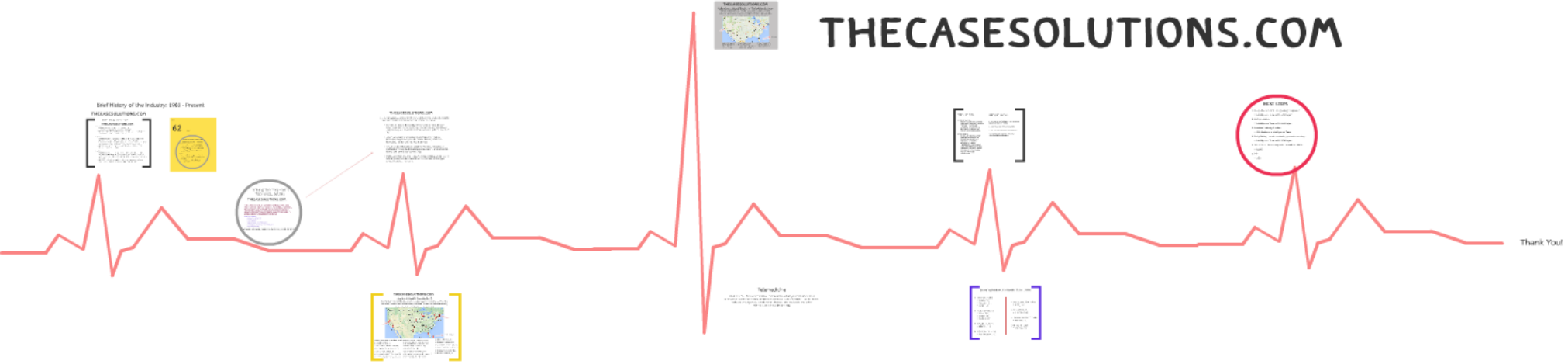

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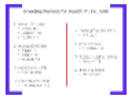

# Brief History of the Industry: 1960 - Present

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### Brief History: 1960 - 1989

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- 1960's:
  - Healthcare drivers - Medicare and Medicaid.
  - IT Drivers - expensive mainframes and storage.
  - Results - Hospitals shared mainframes which were principally used for shared hospital accounting systems
- 1970's:
  - Healthcare driver - Improved communication between departments + need for discrete departmental systems (Labs/pharmacies)
  - IT Drivers - Smaller computers - proliferation of departmental systems, but isolated and not interactive --- "on islands of their own"
  - Results - Expanded financial & administrative systems, selected clinical department automation
- 1980's:
  - Healthcare drivers - new systems for tracking clinical and financial systems for insurance reimbursements + proliferation of personal computers, nontraditional software applications and emerging network solutions
  - Results - Integrated financial & clinical systems, managed care financial & administrative systems, departmental imaging

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## Brief History: 1990 - Present

1990's:

- Healthcare driver = competition & consolidation, along with integration of hospitals, providers and managed care.
- IT Driver = Broad distribution of computers, cheaper hardware and storage
- Results = expanded clinical departmental solutions, integrated offerings

2000's:

- Healthcare driver = integration and the beginnings of outcomes-based reimbursement
- IT Driver = More everything, mobility, emerging cloud computing
- Results = broad-based clinical support, operational department, emerging data warehousing and analytics solutions.

# Defining The Med/Health Technology Sectors

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"THE APPLICATION OF ORGANIZED KNOWLEDGE AND SKILLS IN THE FORM OF DEVICES, MEDICINES, VACCINES, PROCEDURES AND SYSTEMS DEVELOPED TO SOLVE A HEALTH PROBLEM AND IMPROVE QUALITY OF LIVES." – WORLD HEALTH ORGANIZATION (WHO)

SUB-SECTORS:

- MEDICAL DEVICES
- SOFTWARE
- WEARABLE TECHNOLOGY
- WIRELESS MEDICAL TECHNOLOGY
- TELEMEDICINE

WE WANT SOFTWARE, WIRELESS MEDTECH, TELEMEDICINE!!!!

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- ... encompasses a wide range of healthcare products & services used to diagnose, monitor or treat diseases or medical conditions.
    - intended to improve the quality of healthcare delivered through earlier diagnosis, less invasive treatment options and reductions in hospital stays and rehabilitation times, improving patient's quality of life.
    - Recent advances have focused on cost reduction. Medical technology may broadly include medical devices, information technology, biotech, and healthcare services.
    - A major driver of the sector's growth is the consumerization of MedTech, enhanced by the widespread availability of smartphones, tablets, and general user connectivity.
    - Medical providers are able to reach a large audience at low cost, a trend that stands to be consolidated as wearable technologies spread throughout the market.

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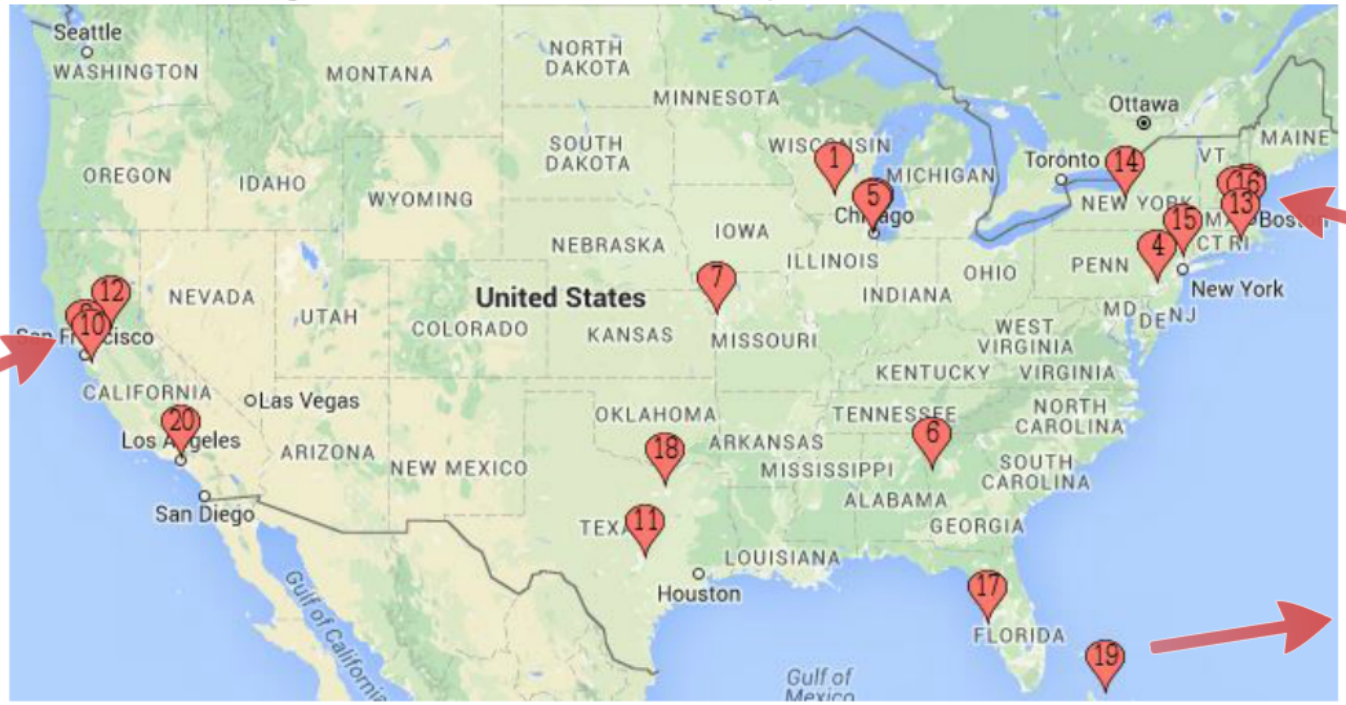
## Electronic Health Records (EHR)

Electronic Health Records (EHR): digital version of a patient's paper chart. Real-time, patient-centered records that make information available instantly and securely to authorized users (medical history, diagnoses, medications, treatment plans, lab results, etc.)




1 international

1. Epic Systems Corporation (Madison, WI)
2. Allscripts (Chicago, IL)
3. eClinicalWorks (Westborough, MA)
4. NextGen Healthcare (Horsham, PA)
5. GE Healthcare (Chicago, IL)
6. Greenway Health LLC (Carrollton, GA)
7. Cerner Corporation (Kansas City, MO)
8. Practice Fusion - (San Francisco, CA)
9. Athenahealth Inc - (Watertown, MA)
10. McKesson (San Francisco, CA)
11. E-MDS (Austin, TX)
12. Eyefinity (Rancho Cordova, CA)
13. AmazingCharts.com Inc. (N. Kingston, RI)
14. Medent EMR/EHR (Auburn, NY)
15. SRSsoft (Montvale, NJ)
16. Meditech (Westwood, MA)
17. Compulink (St. Petersburg, FL)
18. Aprima Medical (Carrollton, TX)
19. Medplus (Hyderabad, India)
20. MedInformatix (L.A., CA)

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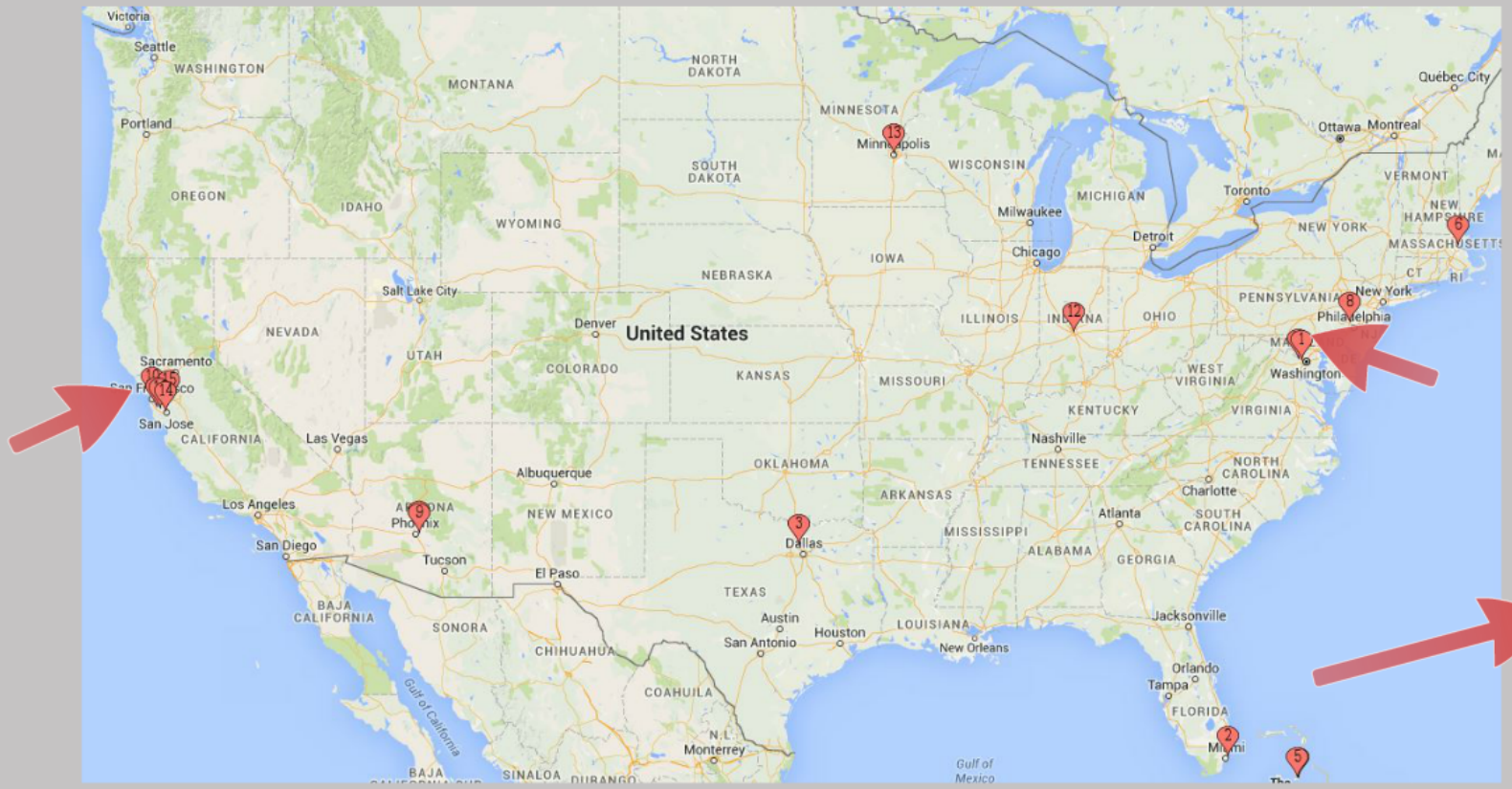
# Wireless MedTech + TeleMedicine

Telemedicine: the use of medical information exchanged from one site to another via electronic communications to improve patient's clinical health status. Includes 2-way video, email, smart phones, wireless tools and other telecommunications technology




1. CareClix – Tysons Corner, VA
2. ConsultADoctor – Miami Beach, FL
3. Teladoc – Lewisville, TX
4. MeMD – Scottsdale, AZ
5. iCliniq – INDIA
6. American Well – Boston, MA
7. MDLive – Redwood City, CA
8. MDAligne – Conshohoken, PA
9. Stat Doctors – Scottsdale, AZ
10. Doctor on Demand – San Francisco, CA
11. Specialists on Call – Reston, VA
12. Livehealth Online – Indianapolis, IN
13. Virtuwell – Minneapolis, MN
14. RingADoc – San Francisco, CA
15. PlushCare – San Francisco, CA
16. Health Tap – San Francisco, CA
17. Health Express – SWEDEN