



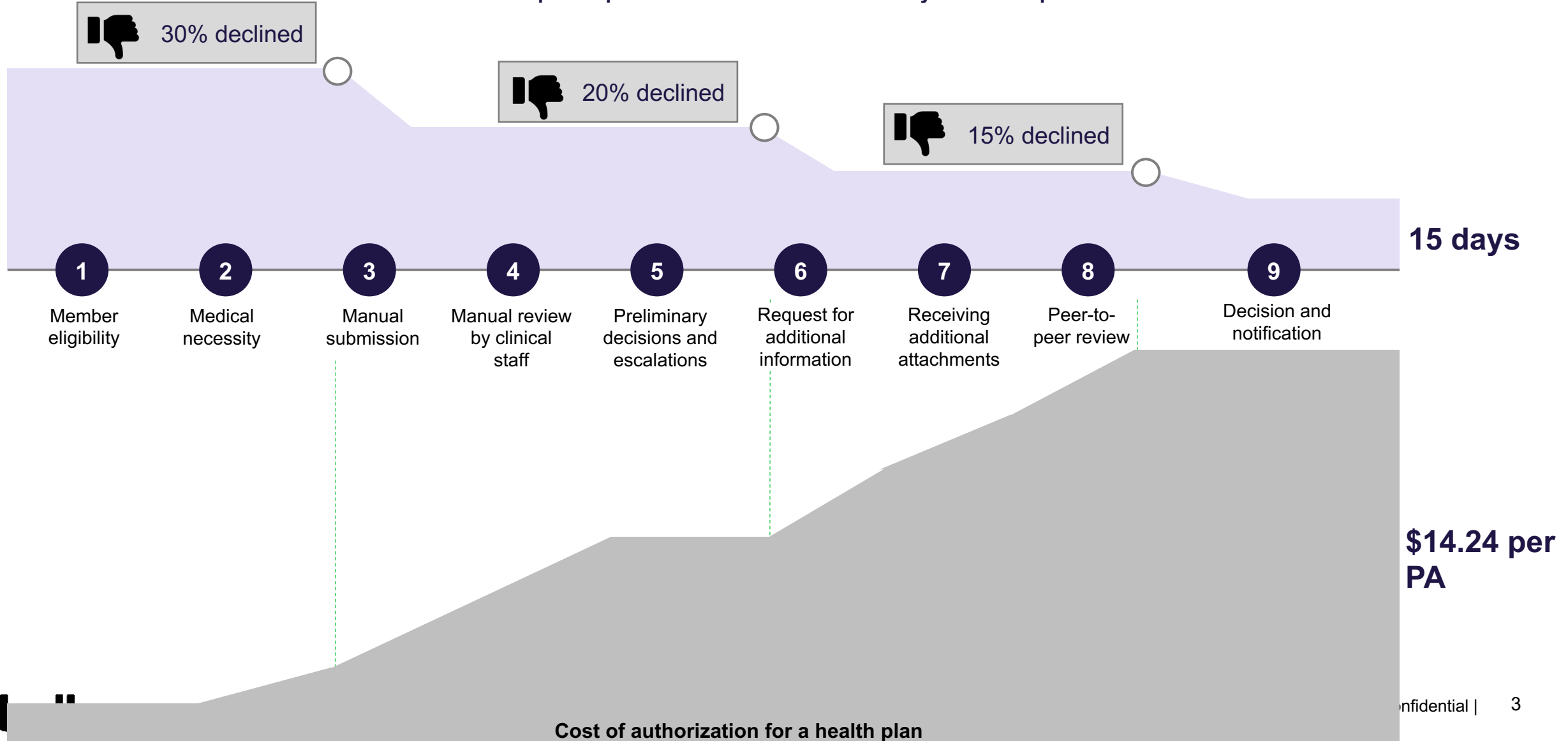
Medical Prior Authorization Automation Solution for Health Plans

July 21, 2023

Prior Authorization Current State & Industry Viewpoint

Current state of Prior Authorization

The prior authorization process is seeking “approval from a health plan that may be required before getting a service or filling a prescription for the service or prescription that needs to be covered by the health plan”.



NEED : A solution to address In-efficiencies & improving the experience

Manual Prior Authorization processes put heavy administrative and financial burden on both payers and providers. The healthcare industry can **save up to \$454 million** by automating PA request procedures

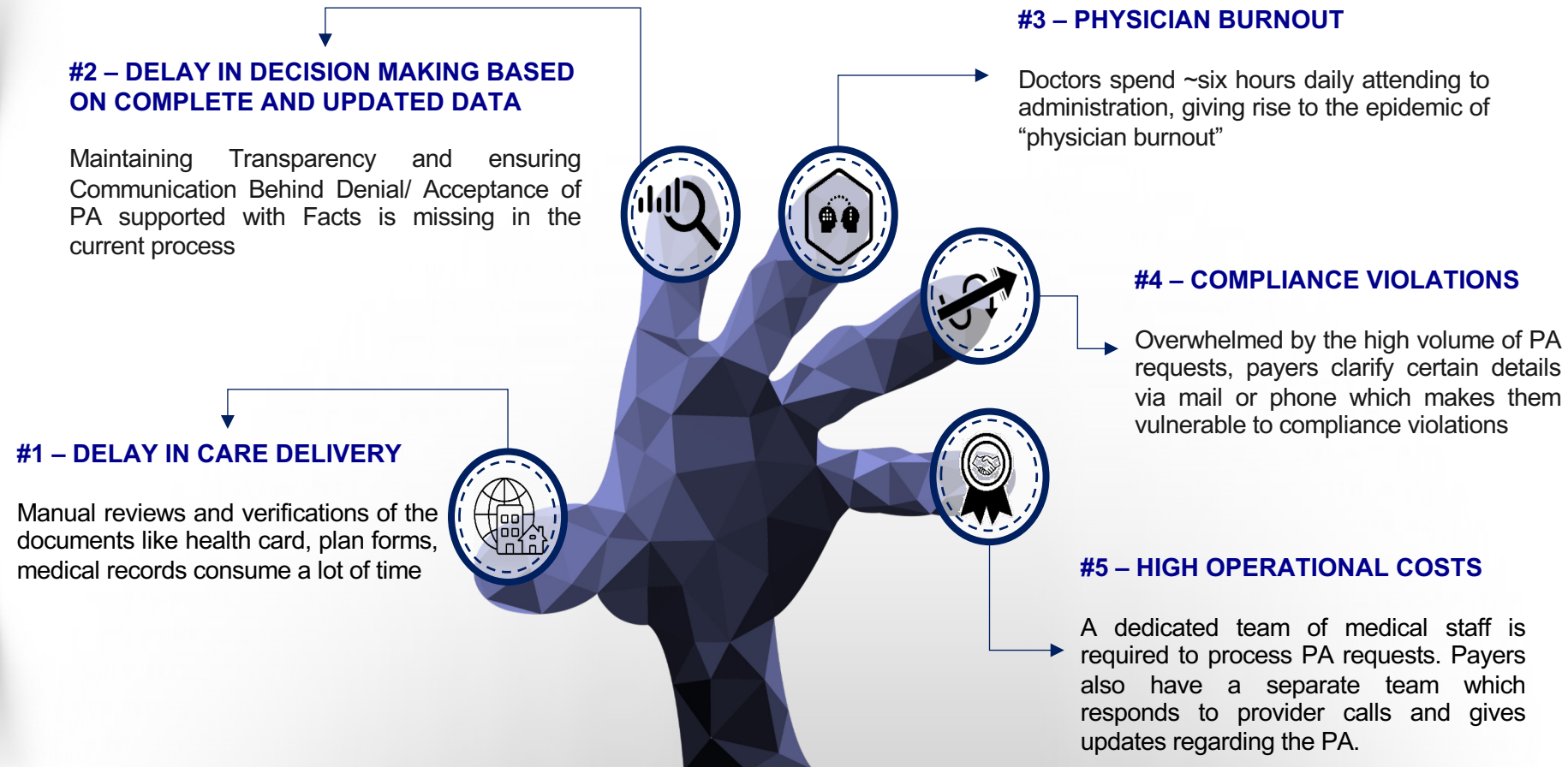
Fully electronic prior authorizations take just **four minutes** on average to complete, versus **21 minutes** to complete manually

There is a rise in average cost of a manual PA from **\$6.61** to **\$11** a **66%** increase

90% of physicians report a negative impact on patients due to the burden of PAs

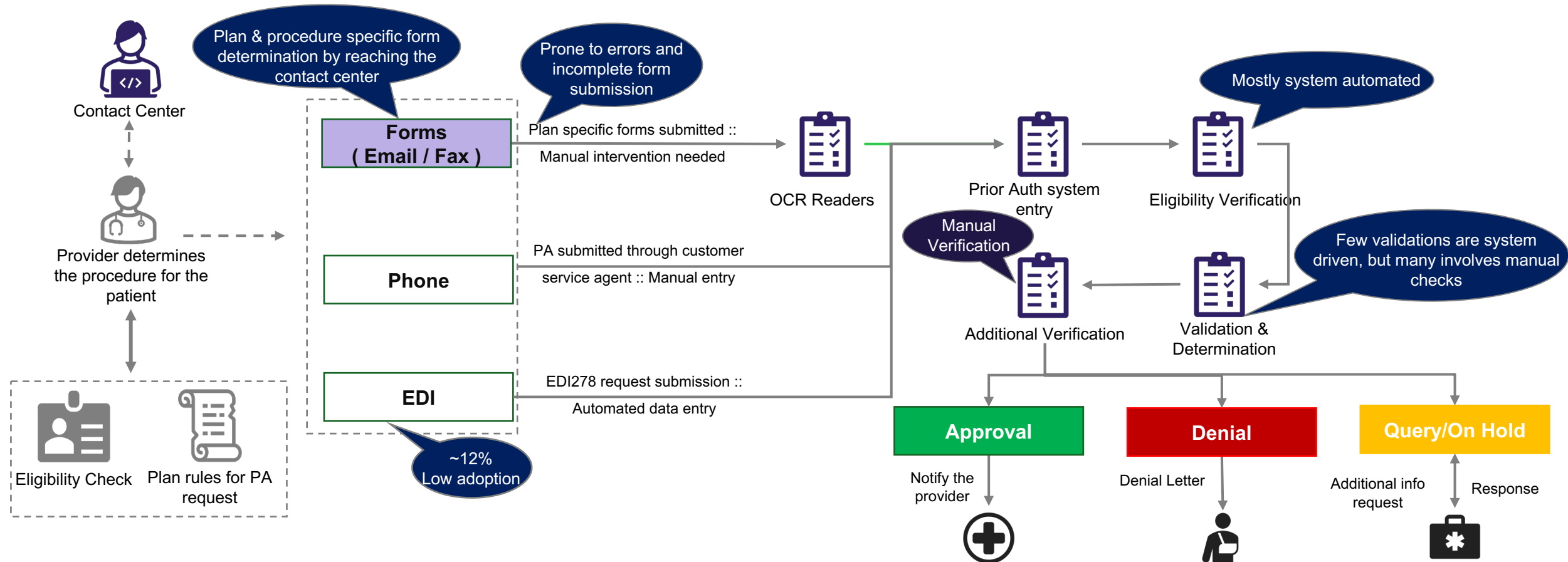
Up to **79%** of physicians report that the PA process leads to patients abandoning treatment

The medical industry could save up to **\$454 million** by transitioning to electronic PAs



Complexity involved in the Prior Authorization process

Prior authorization process involves lot of steps and participation from both payers and providers where each of them have different workflows and infrastructure. Maintaining thousands of health plans, medical charts and manual reviews while adhering to the standards and fluctuating payer rules becomes cumbersome

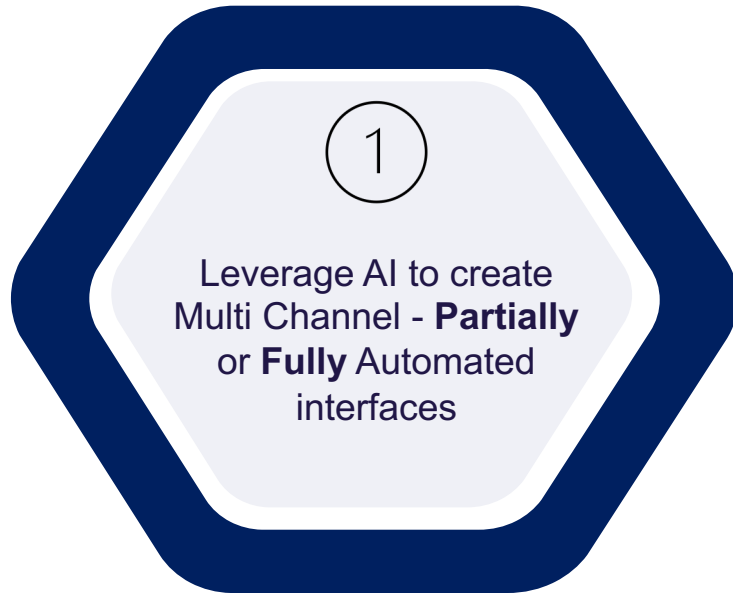


Brillio's Prior Authorization Automation Solution



Key Building blocks :

*Brillio understands the complexity of the Prior Authorization process and the need to leverage existing technologies to create a **Prior Authorization automation solution** that delivers a seamless experience for the providers*

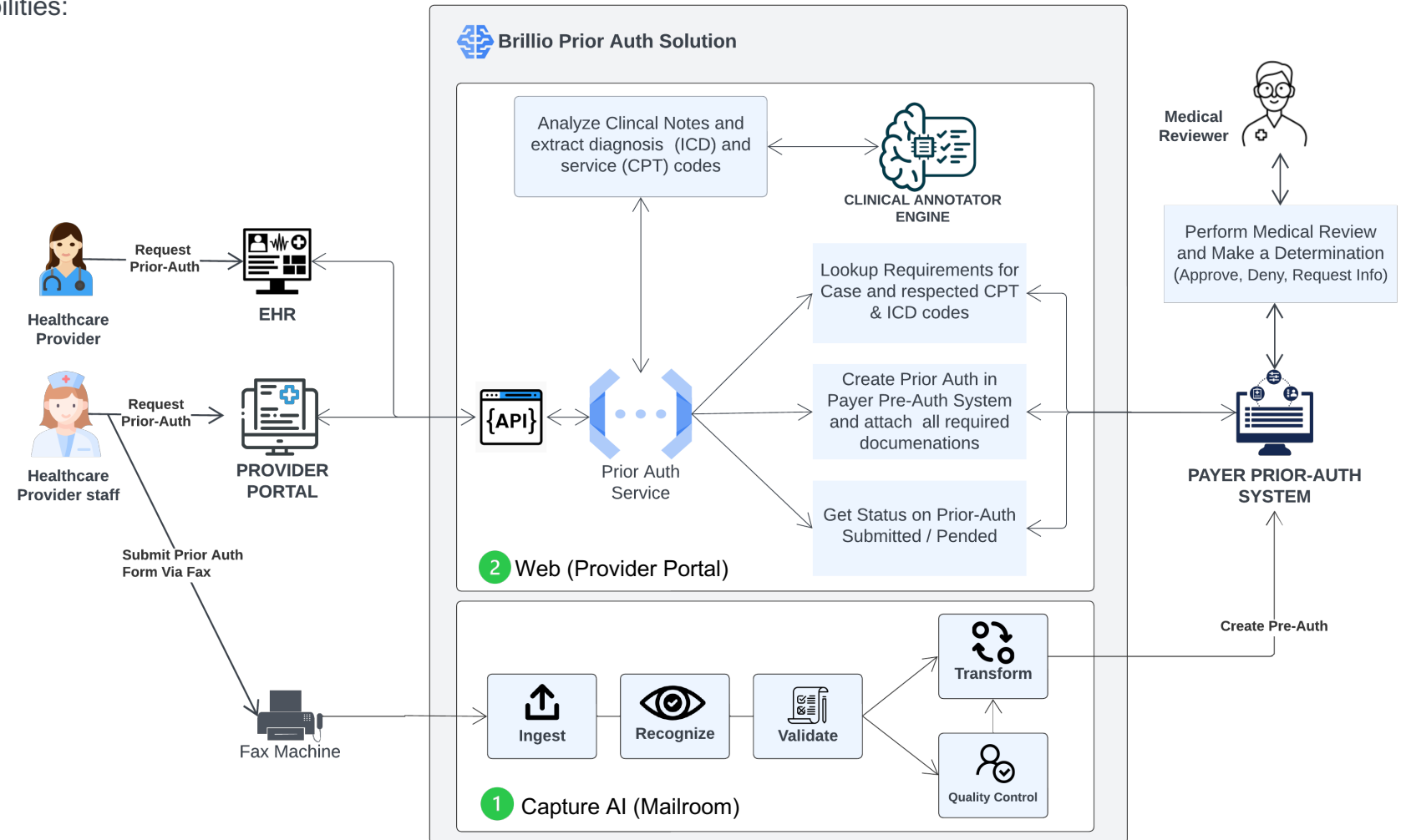


Our Solution Construct for Prior Authorization Automation

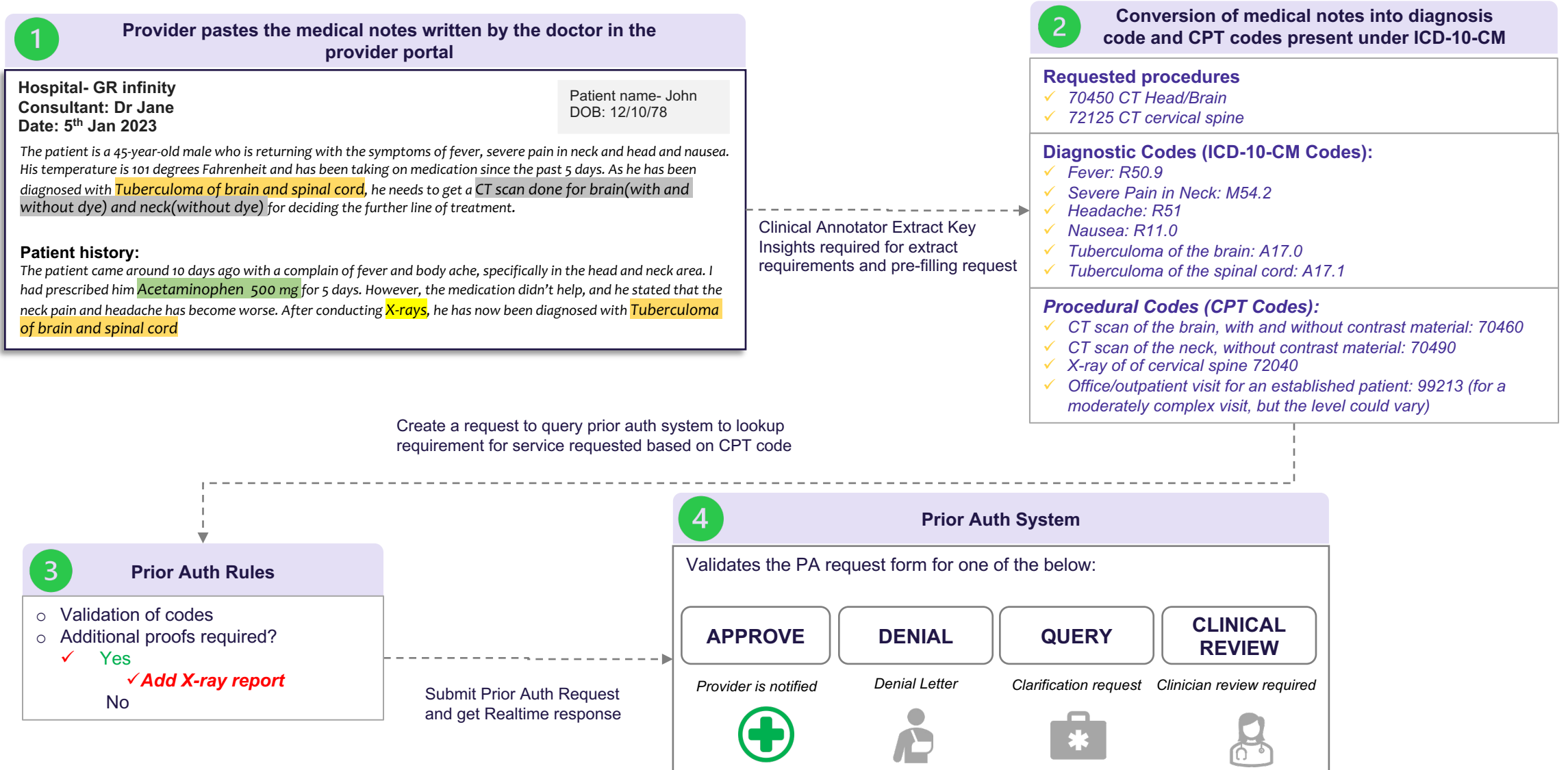
Brillio is proposing a solution to automate and simplify the Prior Authorization process.

The Prior Auth Solution Support the Following capabilities:

1. **Support for paper-based partially-automated submission via fax or mail through AI based service (called Capture AI – Brillio IP)**
 - Capture AI able to extract typed, handwritten and marked information with great degree of accuracy
 - Ability to apply systematic validation rules and human in the loop for quality control
 - Transform captured information systematically into a data format required by prior auth system
2. **Support for digital fully-automated submission via provider portal or service API (integrated into FHIR systems).** This channel is capable of:
 - Extracting procedures and diagnosis codes via clinical annotator engine from physician notes
 - Call Prior-Auth system to lookup requirements for requested CPT service
 - Create Prior Auth request with all information provided by provider
 - Get Realtime decision (Approve, Pend, Deny) for select services
 - Get Status for pended cases



Processing Prior authorization request through our solution



Patient has a tumor, severe anemia, recommend two doses at 500mg of ferumoxytol . Perform an MRI and a pet scan of the lower abdomen with contrast for clarification . Also recommend beginning adjunct treatment of the tumor through 28 treatments of targeted radiation therapy along with 1500mg oral capecitabine chemotherapy twice daily. Finally recommend surgery resection of the sigmoid rectum

Generative AI (Clinical Annotator)

based on the clinical notes below and using FHIR guidelines: Generate a JSON object that includes the record id, description of the service, cpt code, if preauth required true or false, a fhir described precertification requirements , and any required FHIR clinical justification needed for the pre authorization

```
{
  "patient_records": [
    {
      "description": "Therapeutic, prophylactic, or diagnostic injection", "cpt_code": " ",
      "preauth_required": true,
      "fhir_precertification_requirements": {
        "requiredDocumentation": ["Medical necessity", "Dosage and frequency", "Previous treatments and their results"],
        "fhir_clinical_justification": {"reason": "Severe anemia due to tumor"}
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    {
      "description": "Magnetic resonance (e.g., proton) imaging, abdomen; with contrast material(s)", "cpt_code": "74183",
      "preauth_required": true,
      "fhir_precertification_requirements": {
        "requiredDocumentation": ["Medical necessity", "Specific area to be scanned", "Previous imaging studies and their results"],
        "fhir_clinical_justification": {"reason": "Tumor detection and management" }
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    },
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      "description": "PET with concurrently acquired CT for attenuation correction and anatomical localization imaging", "cpt_code": "78815",
      "preauth_required": true,
      "fhir_precertification_requirements": {
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        "requiredDocumentation": ["Medical necessity", "Treatment plan including total doses and number of treatments", "Previous treatments and their results"],
        "fhir_clinical_justification": {"reason": "Targeted tumor treatment"}
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    },
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      "description": "Colectomy, partial; with end colostomy and closure of distal segment (Hartmann type procedure)", "cpt_code": "44143",
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        "requiredDocumentation": ["Medical necessity", "Previous treatments and their results", "Proof of tumor diagnosis"],
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      }
    }
  ]
}
```

Benefits of automating the Prior Authorization



Saves time and resources involved in filling the forms manually



Reduces denials and improves productivity



Ensures compliance with Service level agreements



Simplified user experience



Increases speed to care



THANK YOU